

# Ruddy Wattiez

## List of Publications by Year in descending order

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Version: 2024-02-01

211  
papers

8,230  
citations

50170

46  
h-index

66788

78  
g-index

214  
all docs

214  
docs citations

214  
times ranked

9812  
citing authors

#	ARTICLE	IF	CITATIONS
1	Co-occurrence of integrase 1, antibiotic and heavy metal resistance genes in municipal wastewater treatment plants. <i>Water Research</i> , 2016, 94, 208-214.	5.3	397
2	<i>Ralstonia metallidurans</i> , a bacterium specifically adapted to toxic metals: towards a catalogue of metal-responsive genes. <i>FEMS Microbiology Reviews</i> , 2003, 27, 385-410.	3.9	386
3	The DUX4 gene at the FSHD1A locus encodes a pro-apoptotic protein. <i>Neuromuscular Disorders</i> , 2007, 17, 611-623.	0.3	286
4	The plastisphere in marine ecosystem hosts potential specific microbial degraders including <i>Alcanivorax borkumensis</i> as a key player for the low-density polyethylene degradation. <i>Journal of Hazardous Materials</i> , 2019, 380, 120899.	6.5	231
5	Cloning and Characterization of AOEB166, a Novel Mammalian Antioxidant Enzyme of the Peroxiredoxin Family. <i>Journal of Biological Chemistry</i> , 1999, 274, 30451-30458.	1.6	220
6	Modifier effect of ENOS in autosomal dominant polycystic kidney disease. <i>Human Molecular Genetics</i> , 2002, 11, 229-241.	1.4	160
7	Phosphorylation of histone deacetylase 7 by protein kinase D mediates T cell receptor-induced Nur77 expression and apoptosis. <i>Journal of Experimental Medicine</i> , 2005, 201, 793-804.	4.2	154
8	Cancer biomarker sensing using packaged plasmonic optical fiber gratings: Towards in vivo diagnosis. <i>Biosensors and Bioelectronics</i> , 2017, 92, 449-456.	5.3	149
9	How Does Pollen Chemistry Impact Development and Feeding Behaviour of Polylectic Bees?. <i>PLoS ONE</i> , 2014, 9, e86209.	1.1	148
10	Proteomics of bronchoalveolar lavage fluid. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005, 815, 169-178.	1.2	128
11	<i>Yersinia enterocolitica</i> type III secretion-translocation system: channel formation by secreted Yops. <i>EMBO Journal</i> , 1999, 18, 6793-6799.	3.5	127
12	Pollen and nectar quality drive the major and minor floral choices of bumble bees. <i>Apidologie</i> , 2015, 46, 92-106.	0.9	124
13	Bacterial metal resistance genes and metal bioavailability in contaminated sediments. <i>Environmental Pollution</i> , 2014, 189, 143-151.	3.7	123
14	Rapid Detection of Circulating Breast Cancer Cells Using a Multiresonant Optical Fiber Aptasensor with Plasmonic Amplification. <i>ACS Sensors</i> , 2020, 5, 454-463.	4.0	120
15	Transcriptomic and proteomic analyses of the pMOL30-encoded copper resistance in <i>Cupriavidus metallidurans</i> strain CH34. <i>Microbiology (United Kingdom)</i> , 2006, 152, 1765-1776.	0.7	118
16	Database of bronchoalveolar lavage fluid proteins. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2002, 771, 221-236.	1.2	116
17	Skin mucus of <i>Cyprinus carpio</i> inhibits cyprinid herpesvirus 3 binding to epidermal cells. <i>Veterinary Research</i> , 2011, 42, 92.	1.1	107
18	Human bronchoalveolar lavage fluid: Two-dimensional gel electrophoresis, amino acid microsequencing and identification of major proteins. <i>Electrophoresis</i> , 1999, 20, 1634-1645.	1.3	102

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19	Small biomolecule immunosensing with plasmonic optical fiber grating sensor. <i>Biosensors and Bioelectronics</i> , 2016, 77, 315-322.	5.3	97
20	Long-term industrial metal contamination unexpectedly shaped diversity and activity response of sediment microbiome. <i>Journal of Hazardous Materials</i> , 2018, 344, 299-307.	6.5	86
21	HER2 breast cancer biomarker detection using a sandwich optical fiber assay. <i>Talanta</i> , 2021, 221, 121452.	2.9	85
22	Isolation and Partial Characterization of a Pregnancy-Associated Glycoprotein Family from the Goat Placenta1. <i>Biology of Reproduction</i> , 1998, 58, 109-115.	1.2	83
23	Lead(II) resistance in <i>Cupriavidus metallidurans</i> CH34: interplay between plasmid and chromosomally-located functions. <i>Antonie Van Leeuwenhoek</i> , 2009, 96, 171-182.	0.7	81
24	Diet effects on bumblebee health. <i>Journal of Insect Physiology</i> , 2017, 96, 128-133.	0.9	80
25	The <i>yggH</i> Gene of <i>Escherichia coli</i> Encodes a tRNA (m <sup>7</sup> G46) Methyltransferase. <i>Journal of Bacteriology</i> , 2003, 185, 3238-3243.	1.0	78
26	The genome of cyprinid herpesvirus 3 encodes 40 proteins incorporated in mature virions. <i>Journal of General Virology</i> , 2010, 91, 452-462.	1.3	78
27	Crystal Structure of a Dimeric Oxidized form of Human Peroxiredoxin 5. <i>Journal of Molecular Biology</i> , 2004, 337, 1079-1090.	2.0	77
28	Sea star tenacity mediated by a protein that fragments, then aggregates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6317-6322.	3.3	76
29	A Novel Hydrolase Identified by Genomic-Proteomic Analysis of Phenylurea Herbicide Mineralization by <i>Variovorax</i> sp. Strain SRS16. <i>Applied and Environmental Microbiology</i> , 2011, 77, 8754-8764.	1.4	70
30	In situ cancer diagnosis through online plasmonics. <i>Biosensors and Bioelectronics</i> , 2019, 131, 104-112.	5.3	68
31	An integrated transcriptomic and proteomic analysis of sea star epidermal secretions identifies proteins involved in defense and adhesion. <i>Journal of Proteomics</i> , 2015, 128, 83-91.	1.2	66
32	Bacterial Survival under Extreme UV Radiation: A Comparative Proteomics Study of <i>Rhodobacter</i> sp., Isolated from High Altitude Wetlands in Chile. <i>Frontiers in Microbiology</i> , 2017, 8, 1173.	1.5	66
33	Endophilin-A3 and Galectin-8 control the clathrin-independent endocytosis of CD166. <i>Nature Communications</i> , 2020, 11, 1457.	5.8	65
34	The long-term adaptation of bacterial communities in metal-contaminated sediments: a metaproteogenomic study. <i>Environmental Microbiology</i> , 2015, 17, 1991-2005.	1.8	64
35	Proteomics as the Tool to Search for Lung Disease Markers in Bronchoalveolar Lavage. <i>Disease Markers</i> , 2001, 17, 271-284.	0.6	63
36	Fiber-Optic SPR Immunosensors Tailored To Target Epithelial Cells through Membrane Receptors. <i>Analytical Chemistry</i> , 2015, 87, 5957-5965.	3.2	58

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37	The cytotoxicity of the parvovirus minute virus of mice nonstructural protein NS1 is related to changes in the synthesis and phosphorylation of cell proteins. <i>Journal of Virology</i> , 1997, 71, 4671-4678.	1.5	56
38	Phosphorylation of the Human T-Cell Leukemia Virus Type 1 Transactivator Tax on Adjacent Serine Residues Is Critical for Tax Activation. <i>Journal of Virology</i> , 1999, 73, 738-745.	1.5	56
39	Genetic and metabolic analysis of the carbofuran catabolic pathway in <i>Novosphingobium</i> sp. KN65.2. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 8235-8252.	1.7	55
40	Degradation of Film and Rigid Bioplastics During the Thermophilic Phase and the Maturation Phase of Simulated Composting. <i>Journal of Polymers and the Environment</i> , 2021, 29, 3015-3028.	2.4	55
41	Differential proteomic analysis using isotope-coded protein labeling strategies: Comparison, improvements and application to simulated microgravity effect on <i>Cupriavidus metallidurans</i> CH34. <i>Proteomics</i> , 2010, 10, 2281-2291.	1.3	54
42	Standardized protocol to evaluate pollen polypeptides as bee food source. <i>Apidologie</i> , 2014, 45, 192-204.	0.9	54
43	Identification of human plasma proteins that bind to cationic lipid/DNA complex and analysis of their effects on transfection efficiency: implications for intravenous gene transfer. <i>Molecular Therapy</i> , 2003, 8, 264-273.	3.7	52
44	Experimental design and environmental parameters affect <i>Rhodospirillum rubrum</i> S1H response to space flight. <i>ISME Journal</i> , 2009, 3, 1402-1419.	4.4	52
45	Different Ancestries of R Tailocins in Rhizospheric <i>Pseudomonas</i> Isolates. <i>Genome Biology and Evolution</i> , 2015, 7, 2810-2828.	1.1	52
46	Impact of Solar Radiation on Gene Expression in Bacteria. <i>Proteomes</i> , 2013, 1, 70-86.	1.7	51
47	Selective detection of cadmium ions using plasmonic optical fiber gratings functionalized with bacteria. <i>Optics Express</i> , 2020, 28, 19740.	1.7	50
48	HER2 biosensing through SPR-envelope tracking in plasmonic optical fiber gratings. <i>Biomedical Optics Express</i> , 2020, 11, 4862.	1.5	49
49	Key Role of Ser562/661 in Snf1-Dependent Regulation of Cat8p in <i>Saccharomyces cerevisiae</i> and <i>Kluyveromyces lactis</i> . <i>Molecular and Cellular Biology</i> , 2004, 24, 4083-4091.	1.1	48
50	Characterisation of the Carbohydrate Fraction of the Temporary Adhesive Secreted by the Tube Feet of the Sea Star <i>Asterias rubens</i> . <i>Marine Biotechnology</i> , 2011, 13, 484-495.	1.1	48
51	Microbial biofilm composition and polymer degradation of compostable and non-compostable plastics immersed in the marine environment. <i>Journal of Hazardous Materials</i> , 2021, 419, 126526.	6.5	48
52	Lentil seed aquaporins form a hetero-oligomer which is phosphorylated by a Mg <sup>2+</sup> -dependent and Ca <sup>2+</sup> -regulated kinase. <i>Biochemical Journal</i> , 2000, 352, 183-190.	1.7	47
53	Trade-Off between Growth and Carbohydrate Accumulation in Nutrient-Limited <i>Arthrospira</i> sp. PCC 8005 Studied by Integrating Transcriptomic and Proteomic Approaches. <i>PLoS ONE</i> , 2015, 10, e0132461.	1.1	47
54	Molecular investigation of the radiation resistance of edible cyanobacterium <i>Arthrospira</i> sp. PCC 8005. <i>MicrobiologyOpen</i> , 2015, 4, 187-207.	1.2	47

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55	Evaluation of gold layer configuration for plasmonic fiber grating biosensors. <i>Optics Express</i> , 2018, 26, 24154.	1.7	45
56	The response of <i>Cupriavidus metallidurans</i> CH34 to spaceflight in the international space station. <i>Antonie Van Leeuwenhoek</i> , 2009, 96, 227-245.	0.7	44
57	Cytokeratins Biosensing Using Tilted Fiber Gratings. <i>Biosensors</i> , 2018, 8, 74.	2.3	44
58	Conformational Changes in Aerolysin during the Transition from the Water-Soluble Protoxin to the Membrane Channel. <i>Biochemistry</i> , 1997, 36, 15224-15232.	1.2	43
59	Proteomic study of linuron and 3,4-dichloroaniline degradation by <i>Variovorax</i> sp. WDL1: evidence for the involvement of an aniline dioxygenase-related multicomponent protein. <i>Research in Microbiology</i> , 2010, 161, 208-218.	1.0	42
60	Proteomic and cellular views of <i>Arthrospira</i> sp. PCC 8005 adaptation to nitrogen depletion. <i>Microbiology (United Kingdom)</i> , 2014, 160, 1224-1236.	0.7	42
61	Harvesting carbohydrate-rich <i>Arthrospira platensis</i> by spontaneous settling. <i>Bioresource Technology</i> , 2015, 180, 16-21.	4.8	42
62	Identification of a second <i>Mycobacterium tuberculosis</i> gene cluster encoding proteins of an ABC phosphate transporter. <i>FEBS Letters</i> , 1996, 394, 206-212.	1.3	41
63	Genome Sequence of the Edible Cyanobacterium <i>Arthrospira</i> sp. PCC 8005. <i>Journal of Bacteriology</i> , 2010, 192, 2465-2466.	1.0	41
64	Effects of Lipid-Lowering Drugs on Vancomycin Susceptibility of Mycobacteria. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 6193-6199.	1.4	40
65	Structure and Dynamics of the Membrane-Embedded Domain of LmrA Investigated by Coupling Polarized ATR-FTIR Spectroscopy and <sup>1</sup> H/ <sup>2</sup> H Exchange. <i>Biochemistry</i> , 2001, 40, 11876-11886.	1.2	38
66	Global analysis of the <i>Ralstonia metallidurans</i> proteome: Prelude for the large-scale study of heavy metal response. <i>Proteomics</i> , 2004, 4, 151-179.	1.3	38
67	Characterization of the protein fraction of the temporary adhesive secreted by the tube feet of the sea star <i>Asterias rubens</i> . <i>Biofouling</i> , 2012, 28, 289-303.	0.8	38
68	The IL-10 homologue encoded by cyprinid herpesvirus 3 is essential neither for viral replication in vitro nor for virulence in vivo. <i>Veterinary Research</i> , 2013, 44, 53.	1.1	38
69	Plasmonic Fiber Grating Biosensors Demodulated Through Spectral Envelopes Intersection. <i>Journal of Lightwave Technology</i> , 2021, 39, 7288-7295.	2.7	38
70	Overview and emerging trends in optical fiber aptasensing. <i>Biosensors and Bioelectronics</i> , 2022, 196, 113694.	5.3	38
71	Antigen discovery: A postgenomic approach to paratuberculosis diagnosis. <i>Proteomics</i> , 2007, 7, 1164-1176.	1.3	37
72	Impact of different nitrogen sources on the growth of <i>Arthrospira</i> sp. PCC 8005 under batch and continuous cultivation – A biochemical, transcriptomic and proteomic profile. <i>Bioresource Technology</i> , 2017, 237, 78-88.	4.8	37

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73	Characterization of the interaction of IpaB and IpaD, proteins required for entry of <i>Shigella flexneri</i> into epithelial cells, with a lipid membrane. <i>FEBS Journal</i> , 2000, 267, 5769-5776.	0.2	36
74	Susceptibility to oxidative stress: proteomic analysis of bronchoalveolar lavage from ozone-sensitive and ozone-resistant strains of mice. <i>Proteomics</i> , 2003, 3, 658-665.	1.3	34
75	Selective and reversible thiol-pegylation, an effective approach for purification and characterization of five fully active ficin (iso)forms from <i>Ficus carica</i> latex. <i>Phytochemistry</i> , 2011, 72, 1718-1731.	1.4	34
76	Protein structure, amino acid composition and sequence determine proteome vulnerability to oxidation-induced damage. <i>EMBO Journal</i> , 2020, 39, e104523.	3.5	34
77	Purification and Characterization of Two Voltage-Dependent Anion Channel Isoforms from Plant Seeds. <i>Plant Physiology</i> , 2000, 124, 1181-1190.	2.3	33
78	A new method to induce oocyte maturation in holothuroids (Echinodermata). <i>Invertebrate Reproduction and Development</i> , 2009, 53, 13-21.	0.3	32
79	Biochemical and immunological characterization of a cpn60.1 knockout mutant of <i>Mycobacterium bovis</i> BCG. <i>Microbiology (United Kingdom)</i> , 2011, 157, 1205-1219.	0.7	32
80	HylA, an Alternative Hydrolase for Initiation of Catabolism of the Phenylurea Herbicide Linuron in <i>Variovorax</i> sp. Strains. <i>Applied and Environmental Microbiology</i> , 2013, 79, 5258-5263.	1.4	32
81	Isoniazid Bactericidal Activity Involves Electron Transport Chain Perturbation. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	1.4	32
82	Structure and Interaction of PA63 and EF (Edema Toxin) of <i>Bacillus anthracis</i> with Lipid Membrane. <i>Biochemistry</i> , 1997, 36, 14906-14913.	1.2	30
83	Eubacterial HslV and HslU Subunits Homologs in Primordial Eukaryotes. <i>Molecular Biology and Evolution</i> , 2002, 19, 2110-2117.	3.5	30
84	Molecular Structure and Metal-binding Properties of the Periplasmic CopK Protein Expressed in <i>Cupriavidus metallidurans</i> CH34 During Copper Challenge. <i>Journal of Molecular Biology</i> , 2008, 380, 386-403.	2.0	30
85	The <i>Pseudomonas</i> community in metal-contaminated sediments as revealed by quantitative PCR: a link with metal bioavailability. <i>Research in Microbiology</i> , 2014, 165, 647-656.	1.0	30
86	The importance of pollen chemistry in evolutionary host shifts of bees. <i>Scientific Reports</i> , 2017, 7, 43058.	1.6	30
87	Optical Fiber Gratings Immunoassays. <i>Sensors</i> , 2019, 19, 2595.	2.1	30
88	Lung Hyperpermeability, Clara-Cell Secretory Protein (CC16), and Susceptibility to Ozone of Five Inbred Strains of Mice. <i>Inhalation Toxicology</i> , 2003, 15, 1209-1230.	0.8	29
89	FSHD Myotubes with Different Phenotypes Exhibit Distinct Proteomes. <i>PLoS ONE</i> , 2012, 7, e51865.	1.1	29
90	Identification of the Amidase BbdA That Initiates Biodegradation of the Groundwater Micropollutant 2,6-dichlorobenzamide (BAM) in <i>Aminobacter</i> sp. MSH1. <i>Environmental Science &amp; Technology</i> , 2015, 49, 11703-11713.	4.6	28

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91	Proteomic analysis reveals novel insights into tanshinones biosynthesis in <i>Salvia miltiorrhiza</i> hairy roots. <i>Scientific Reports</i> , 2019, 9, 5768.	1.6	28
92	Multimodal plasmonic optical fiber grating aptasensor. <i>Optics Express</i> , 2020, 28, 7539.	1.7	28
93	Proteome-Wide Analysis and Diel Proteomic Profiling of the Cyanobacterium <i>Arthrospira platensis</i> PCC 8005. <i>PLoS ONE</i> , 2014, 9, e99076.	1.1	28
94	A novel form of ficin from <i>Ficus carica</i> latex: Purification and characterization. <i>Phytochemistry</i> , 2015, 117, 154-167.	1.4	27
95	Shotgun Redox Proteomics: Identification and Quantitation of Carbonylated Proteins in the UVB-Resistant Marine Bacterium, <i>Photobacterium angustum</i> S14. <i>PLoS ONE</i> , 2013, 8, e68112.	1.1	27
96	Identification of PSF, the polypyrimidine tract-binding protein-associated splicing factor, as a developmentally regulated neuronal protein. <i>Journal of Neuroscience Research</i> , 1999, 57, 62-73.	1.3	26
97	Shotgun Proteome Analysis of <i>Rhodospirillum rubrum</i> S1H: Integrating Data from Gel-Free and Gel-Based Peptides Fractionation Methods. <i>Journal of Proteome Research</i> , 2009, 8, 2530-2541.	1.8	26
98	Modelled microgravity cultivation modulates N-acylhomoserine lactone production in <i>Rhodospirillum rubrum</i> S1H independently of cell density. <i>Microbiology (United Kingdom)</i> , 2013, 159, 2456-2466.	0.7	26
99	Homologous Transcription Factors DUX4 and DUX4c Associate with Cytoplasmic Proteins during Muscle Differentiation. <i>PLoS ONE</i> , 2016, 11, e0146893.	1.1	26
100	Shotgun proteomics: concept, key points and data mining. <i>Expert Review of Proteomics</i> , 2010, 7, 5-7.	1.3	25
101	Reprogramming of Energy Metabolism: Increased Expression and Roles of Pyruvate Carboxylase in Papillary Thyroid Cancer. <i>Thyroid</i> , 2019, 29, 845-857.	2.4	25
102	Functionalized gold electroless-plated optical fiber gratings for reliable surface biosensing. <i>Sensors and Actuators B: Chemical</i> , 2019, 280, 54-61.	4.0	25
103	Characterization of Human Serum N-Acetylmuramyl-L-alanine Amidase Purified by Affinity Chromatography. <i>Protein Expression and Purification</i> , 1995, 6, 371-378.	0.6	24
104	Immunogenicity and protective efficacy of DNA vaccines encoding MAP0586c and MAP4308c of <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> secretome. <i>Vaccine</i> , 2008, 26, 4783-4794.	1.7	24
105	Identification and localization of the structural proteins of anguillid herpesvirus 1. <i>Veterinary Research</i> , 2011, 42, 105.	1.1	24
106	Proteomic and Functional Analyses of the Virion Transmembrane Proteome of Cyprinid Herpesvirus 3. <i>Journal of Virology</i> , 2017, 91, .	1.5	24
107	Genetic Plasticity and Ethylmalonyl Coenzyme A Pathway during Acetate Assimilation in <i>Rhodospirillum rubrum</i> S1H under Photoheterotrophic Conditions. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	24
108	Comparative processing of bovine leukemia virus envelope glycoprotein gp72 by subtilisin/rexin-like mammalian convertases. <i>FEBS Letters</i> , 1997, 406, 205-210.	1.3	23

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109	The Function of Oscillatory Tongue-Flicks in Snakes: Insights from Kinematics of Tongue-Flicking in the Banded Water Snake ( <i>Nerodia fasciata</i> ). <i>Chemical Senses</i> , 2012, 37, 883-896.	1.1	23
110	Proteome Analysis of the UVB-Resistant Marine Bacterium <i>Photobacterium angustum</i> S14. <i>PLoS ONE</i> , 2012, 7, e42299.	1.1	23
111	Expanded insecticide catabolic activity gained by a single nucleotide substitution in a bacterial carbamate hydrolase gene. <i>Environmental Microbiology</i> , 2016, 18, 4878-4887.	1.8	23
112	[INVITED] Cell sensing with near-infrared plasmonic optical fiber sensors. <i>Optics and Laser Technology</i> , 2016, 78, 116-121.	2.2	23
113	Molecular insights into the powerful mucus-based adhesion of limpets ( <i>Patella vulgata</i> L.). <i>Open Biology</i> , 2020, 10, 200019.	1.5	23
114	Proteomic Characterization of Murid Herpesvirus 4 Extracellular Virions. <i>PLoS ONE</i> , 2013, 8, e83842.	1.1	22
115	Proteomic Characterization of Bovine Herpesvirus 4 Extracellular Virions. <i>Journal of Virology</i> , 2012, 86, 11567-11580.	1.5	21
116	Global Proteomic Analysis Reveals High Light Intensity Adaptation Strategies and Polyhydroxyalkanoate Production in <i>Rhodospirillum rubrum</i> Cultivated With Acetate as Carbon Source. <i>Frontiers in Microbiology</i> , 2020, 11, 464.	1.5	21
117	Topology of diphtheria toxin in lipid vesicle membranes: a proteolysis study. <i>Molecular Microbiology</i> , 1996, 21, 1283-1296.	1.2	20
118	Toward functional glycomics by localization of tissue lectins: immunohistochemical galectin fingerprinting during diethylstilbestrol-induced kidney tumorigenesis in male Syrian hamster. <i>Histochemistry and Cell Biology</i> , 2005, 123, 29-41.	0.8	20
119	Use of <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> specific coding sequences for serodiagnosis of bovine paratuberculosis. <i>Veterinary Microbiology</i> , 2009, 135, 313-319.	0.8	20
120	Identification and Characterization of New Protein Chemoattractants in the Frog Skin Secretome. <i>Molecular and Cellular Proteomics</i> , 2006, 5, 2114-2123.	2.5	19
121	Differential proteomics and physiology of <i>Pseudomonas putida</i> KT2440 under filament-inducing conditions. <i>BMC Microbiology</i> , 2012, 12, 282.	1.3	19
122	Comparative Metaproteomics to Study Environmental Changes. , 2018, , 327-363.		19
123	Structural Proteomics of Herpesviruses. <i>Viruses</i> , 2016, 8, 50.	1.5	18
124	Production and characterization of a PEGylated derivative of recombinant human deoxyribonuclease I for cystic fibrosis therapy. <i>International Journal of Pharmaceutics</i> , 2017, 524, 159-167.	2.6	18
125	Immunogenicity of eight <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> specific antigens in DNA vaccinated and Map infected mice. <i>Veterinary Immunology and Immunopathology</i> , 2012, 145, 74-85.	0.5	17
126	Nitrogen depletion in <i>Arthrospira</i> sp. PCC 8005, an ultrastructural point of view. <i>Journal of Structural Biology</i> , 2016, 196, 385-393.	1.3	17



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127	Secondary structure changes of diphtheria toxin interacting with asolectin liposomes: an infrared spectroscopy study. <i>Biochimie</i> , 1989, 71, 153-158.	1.3	16
128	Purification and Properties of a Succinyltransferase from <i>Pseudomonas aeruginosa</i> Specific for both Arginine and Ornithine. <i>FEBS Journal</i> , 1994, 224, 853-861.	0.2	16
129	Deciphering the Functioning of Microbial Communities: Shedding Light on the Critical Steps in Metaproteomics. <i>Frontiers in Microbiology</i> , 2019, 10, 2395.	1.5	16
130	Yeast $\hat{\pm}$ -arrestin Art2 is the key regulator of ubiquitylation-dependent endocytosis of plasma membrane vitamin B1 transporters. <i>PLoS Biology</i> , 2019, 17, e3000512.	2.6	16
131	Sea star-inspired recombinant adhesive proteins self-assemble and adsorb on surfaces in aqueous environments to form cytocompatible coatings. <i>Acta Biomaterialia</i> , 2020, 112, 62-74.	4.1	16
132	Purification and Characterization of the Acetone Carboxylase of <i>Cupriavidus metallidurans</i> Strain CH34. <i>Applied and Environmental Microbiology</i> , 2012, 78, 4516-4518.	1.4	15
133	Catabolism of the groundwater micropollutant 2,6-dichlorobenzamide beyond 2,6-dichlorobenzoate is plasmid encoded in <i>Aminobacter</i> sp. MSH1. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 7963-7979.	1.7	15
134	Sample Preparation of Bronchoalveolar Lavage Fluid. <i>Methods in Molecular Biology</i> , 2008, 425, 67-75.	0.4	15
135	New perspectives on butyrate assimilation in <i>Rhodospirillum rubrum</i> S1H under photoheterotrophic conditions. <i>BMC Microbiology</i> , 2020, 20, 126.	1.3	15
136	Virulence and immunogenicity of genetically defined human and porcine isolates of <i>M. avium</i> subsp. hominissuis in an experimental mouse infection. <i>PLoS ONE</i> , 2017, 12, e0171895.	1.1	15
137	Aspartate carbamoyltransferase from the thermoacidophilic archaeon <i>Sulfolobus acidocaldarius</i> . Cloning, sequence analysis, enzyme purification and characterization. <i>FEBS Journal</i> , 1999, 264, 233-241.	0.2	14
138	On the bioavailability of trace metals in surface sediments: a combined geochemical and biological approach. <i>Environmental Science and Pollution Research</i> , 2016, 23, 10679-10692.	2.7	14
139	Paleomicrobiology to investigate copper resistance in bacteria: isolation and description of <i>Cupriavidus necator</i> B9 in the soil of a medieval foundry. <i>Environmental Microbiology</i> , 2017, 19, 770-787.	1.8	14
140	Metabolic and Proteomic Responses to Salinity in Synthetic Nitrifying Communities of <i>Nitrosomonas</i> spp. and <i>Nitrobacter</i> spp.. <i>Frontiers in Microbiology</i> , 2018, 9, 2914.	1.5	14
141	Metal-induced bacterial interactions promote diversity in river-sediment microbiomes. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	1.3	14
142	Chemical Basis of Prey Recognition in Thamnophiine Snakes: The Unexpected New Roles of Parvalbumins. <i>PLoS ONE</i> , 2012, 7, e39560.	1.1	13
143	Embedding photosynthetic biorefineries with circular economies: Exploring the waste recycling potential of <i>Arthrospira</i> sp. to produce high quality by-products. <i>Bioresource Technology</i> , 2018, 268, 237-246.	4.8	13
144	Photoheterotrophic Assimilation of Valerate and Associated Polyhydroxyalkanoate Production by <i>Rhodospirillum rubrum</i> . <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	13

#	ARTICLE	IF	CITATIONS
145	Expression of a biologically active diphtheria toxin fragment B in Escherichia coli. Molecular Microbiology, 1988, 2, 339-346.	1.2	12
146	Membrane topology of VacA cytotoxin from H. pylori. FEBS Letters, 2000, 481, 96-100.	1.3	12
147	Maternal Tobacco Smoking and Lung Epithelium-Specific Proteins in Amniotic Fluid. Pediatric Research, 2001, 50, 487-494.	1.1	12
148	Systematic Exploration of the Glycoproteome of the Beneficial Gut Isolate <i>Lactobacillus rhamnosus</i> GG. Journal of Molecular Microbiology and Biotechnology, 2016, 26, 345-358.	1.0	12
149	From rivers to marine environments: A constantly evolving microbial community within the plastisphere. Marine Pollution Bulletin, 2022, 179, 113660.	2.3	12
150	Involvement of transforming growth factor- $\beta$ and its receptor in a model of DES-induced renal carcinogenesis in the Syrian hamster. Carcinogenesis, 1996, 17, 1615-1622.	1.3	11
151	Characterization of diphtheria toxin's catalytic domain interaction with lipid membranes. Biochimica Et Biophysica Acta - Biomembranes, 2004, 1661, 166-177.	1.4	11
152	<i>Aminobacter</i> sp. MSH1 Mineralizes the Groundwater Micropollutant 2,6-Dichlorobenzamide through a Unique Chlorobenzoate Catabolic Pathway. Environmental Science & Technology, 2019, 53, 10146-10156.	4.6	11
153	Renal epidermal growth factor precursor: proteolytic processing in an in vitro cell-free system Presented as a communication at the 29th Annual Scientific Meeting of the European Society for Clinical Investigation, Cambridge, UK, April 2-5, 1995. Eur. J. Clin. Invest. 25 (suppl. 2), A53, Abstract no. 305. 1995.1. Biochimica Et Biophysica Acta - Molecular Cell Research, 1997, 1357, 18-30.	1.9	10
154	Reappearance of activity in the vestibular neurones of labyrinthectomized guinea-pigs is not delayed by cycloheximide. Journal of Physiology, 1998, 512, 533-541.	1.3	10
155	Structure and Topology of Diphtheria Toxin R Domain in Lipid Membranes. Biochemistry, 1999, 38, 660-666.	1.2	10
156	Lentil seed aquaporins form a hetero-oligomer which is phosphorylated by a Mg <sup>2+</sup> -dependent and Ca <sup>2+</sup> -regulated kinase. Biochemical Journal, 2000, 352, 183.	1.7	10
157	Temporal Gene Expression of the Cyanobacterium Arthrospira in Response to Gamma Rays. PLoS ONE, 2015, 10, e0135565.	1.1	10
158	Internalization of the Extracellular Full-Length Tau Inside Neuro2A and Cortical Cells Is Enhanced by Phosphorylation. Biomolecules, 2016, 6, 36.	1.8	10
159	Detection of the Enzymatic Cleavage of DNA through Supramolecular Chiral Induction to a Cationic Polythiophene. ACS Applied Bio Materials, 2019, 2, 2125-2136.	2.3	10
160	PfHRP2 detection using plasmonic optrodes: performance analysis. Malaria Journal, 2021, 20, 332.	0.8	10
161	Use of a photoactivatable lipid to probe the topology of PA63 of Bacillus anthracis in lipid membranes. FEBS Journal, 1998, 256, 179-183.	0.2	9
162	Proteomic Study of HPV-Positive Head and Neck Cancers: Preliminary Results. BioMed Research International, 2014, 2014, 1-16.	0.9	9

#	ARTICLE	IF	CITATIONS
163	Instantaneous adhesion of Cuvierian tubules in the sea cucumber <i>Holothuria forskali</i> . <i>Biointerphases</i> , 2014, 9, 029016.	0.6	9
164	Harvesting of <i>Arthrospira platensis</i> with helicoidal and straight trichomes using filtration and centrifugation. <i>Separation Science and Technology</i> , 2020, 55, 2381-2390.	1.3	9
165	Selection and propagation of IncP conjugative plasmids following long-term anthropogenic metal pollution in river sediments. <i>Journal of Hazardous Materials</i> , 2020, 382, 121173.	6.5	9
166	Title is missing!. <i>Plant Growth Regulation</i> , 2003, 40, 229-237.	1.8	8
167	Field performance of six <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> antigens in a 20 h interferon gamma release assay in Belgium. <i>Veterinary Immunology and Immunopathology</i> , 2017, 189, 17-27.	0.5	8
168	Assessment of transient effects of alternative nitrogen sources in continuous cultures of <i>Arthrospira</i> sp. using proteomic, modeling and biochemical tools. <i>Bioresource Technology</i> , 2018, 267, 492-501.	4.8	8
169	Cpn60.1 (GroEL1) Contributes to Mycobacterial Crabtree Effect: Implications for Biofilm Formation. <i>Frontiers in Microbiology</i> , 2019, 10, 1149.	1.5	8
170	Sublethal Alterations and Sustained Cell Proliferation Associated with the Diethylstilbestrol-induced Renal Carcinogenesis in male Syrian Golden Hamsters. <i>European Journal of Morphology</i> , 1998, 36, 83-96.	1.4	8
171	Purification and preliminary characterization of a frog-derived proteinaceous chemoattractant eliciting prey attack by checkered garter snakes ( <i>Thamnophis marcianus</i> ). <i>Journal of Chemical Ecology</i> , 1994, 20, 1143-1160.	0.9	7
172	Changes in protein expression in the vestibular nuclei during vestibular compensation. <i>NeuroReport</i> , 1999, 10, 3333-3339.	0.6	7
173	Mechanical adaptability of sea cucumber Cuvierian tubules involves a mutable collagenous tissue. <i>Journal of Experimental Biology</i> , 2017, 220, 2108-2119.	0.8	7
174	A proteomic analysis of contextual fear conditioned rats reveals dynamic modifications in neuron and oligodendrocyte protein expression in the dentate gyrus. <i>European Journal of Neuroscience</i> , 2017, 46, 2177-2189.	1.2	7
175	Analysis of the Involvement of the Isoleucine Biosynthesis Pathway in Photoheterotrophic Metabolism of <i>Rhodospirillum rubrum</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 731976.	1.5	7
176	Effects of Mixing Volatile Fatty Acids as Carbon Sources on <i>Rhodospirillum rubrum</i> Carbon Metabolism and Redox Balance Mechanisms. <i>Microorganisms</i> , 2021, 9, 1996.	1.6	7
177	Unraveling the molecular effects of oxybenzone on the proteome of an environmentally relevant marine bacterium. <i>Science of the Total Environment</i> , 2021, 793, 148431.	3.9	7
178	Molecular mechanisms mediating stiffening in the mechanically adaptable connective tissues of sea cucumbers. <i>Matrix Biology</i> , 2022, 108, 39-54.	1.5	7
179	Dehazing redox homeostasis to foster purple bacteria biotechnology. <i>Trends in Biotechnology</i> , 2023, 41, 106-119.	4.9	7
180	Expression of calgranulin A/B heterodimer after acute inhalation of endotoxin: proteomic approach and validation. <i>BMC Pulmonary Medicine</i> , 2013, 13, 65.	0.8	6

#	ARTICLE	IF	CITATIONS
181	Construction and phenotypic characterization of M68, an Rrul quorum sensing knockout mutant of the photosynthetic alphaproteobacterium Rhodospirillum rubrum. <i>Research in Microbiology</i> , 2016, 167, 380-392.	1.0	5
182	Thioredoxins induce oocyte maturation in holothuroids (Echinodermata). <i>Aquaculture</i> , 2019, 510, 293-301.	1.7	5
183	Ground Demonstration of the Use of <i>Limnospira indica</i> for Air Revitalization in a Bioregenerative Life-Support System Setup: Effect of Non-Nitrified Urine-Derived Nitrogen Sources. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	5
184	Study of the Production of Poly(Hydroxybutyrate- <i>co</i> -Hydroxyhexanoate) and Poly(Hydroxybutyrate- <i>co</i> -Hydroxyvalerate- <i>co</i> -Hydroxyhexanoate) in <i>Rhodospirillum rubrum</i> . <i>Applied and Environmental Microbiology</i> , 2022, 88, AEM0158621.	1.4	5
185	Capsular polysaccharides and exopolysaccharides from <i>Gloeotheca verrucosa</i> under various nitrogen regimes and their potential plant defence stimulation activity. <i>Algal Research</i> , 2022, 64, 102680.	2.4	5
186	Structural modifications in the membrane-bound regions of the gastric H <sup>+</sup> /K <sup>+</sup> -ATPase upon ligand binding. <i>FEBS Journal</i> , 2001, 268, 5135-5141.	0.2	4
187	Overexpression, purification, crystallization and crystallographic analysis of CopK of <i>Cupriavidus metallidurans</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005, 61, 825-827.	0.7	4
188	Proteogenomic Analysis of <i>Epibacterium Mobile</i> BBCC367, a Relevant Marine Bacterium Isolated From the South Pacific Ocean. <i>Frontiers in Microbiology</i> , 2018, 9, 3125.	1.5	4
189	Microwave Atmospheric Plasma: A Versatile and Fast Way to Confer Antimicrobial Activity toward Direct Chitosan Immobilization onto Poly(lactic acid) Substrate. <i>ACS Applied Bio Materials</i> , 2021, 4, 7445-7455.	2.3	4
190	I3-Ag85 effect on phthiodiolone dimycocerosate synthesis. <i>Tuberculosis</i> , 2018, 108, 93-95.	0.8	3
191	Lead Drives Complex Dynamics of a Conjugative Plasmid in a Bacterial Community. <i>Frontiers in Microbiology</i> , 2021, 12, 655903.	1.5	3
192	Disentangling the Roles of Functional Domains in the Aggregation and Adsorption of the Multimodular Sea Star Adhesive Protein Sfp1. <i>Marine Biotechnology</i> , 2021, 23, 724-735.	1.1	3
193	Liquid chromatography setup-dependent artefactual methionine oxidation of peptides: The importance of an adapted quality control process. <i>Journal of Chromatography A</i> , 2021, 1654, 462449.	1.8	3
194	Biofunctionalization strategies for optical fiber grating immunosensors. , 2020, , .		3
195	A contaminant trypsin-like activity from the timothy grass pollen is responsible for the conflicting enzymatic behavior of the major allergen Phl p 1. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013, 1834, 272-283.	1.1	2
196	Diel Protein Regulation of Marine Picoplanktonic Communities Assessed by Metaproteomics. <i>Microorganisms</i> , 2021, 9, 2621.	1.6	2
197	Tyrosine phosphorylation of rabphilin during long-lasting long-term potentiation. <i>Neuroscience Letters</i> , 2007, 414, 257-262.	1.0	1
198	Proteome Analysis of Phototrophic Adaptation. , 2017, , 225-270.		1

#	ARTICLE	IF	CITATIONS
199	Circulating cancer cell detection using an optical fiber aptasensor. , 2020, , .		1
200	Lung Hyperpermeability, Clara-Cell Secretory Protein (CC16), and Susceptibility to Ozone of Five Inbred Strains of Mice. Inhalation Toxicology, 2003, 15, 1209-1230.	0.8	1
201	Transforming growth factor- $\beta$ and epidermal growth factor in hamster tissues: Biochemical and immunohistochemical studies. Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology, 1995, 112, 187-200.	0.5	0
202	Stability and Axenicity in the MELISSA Loop. , 2003, , .		0
203	A Global Approach to Asses Stress Response of the Bioregenerative Life Support System Organism Rhodospirillum rubrum Under Space-Flight Related Environmental Conditions. , 2005, , .		0
204	Visible vs near-infrared optical fiber plasmonics: performance comparison for protein sensing. , 2016, , .		0
205	Near-infrared spectral combs probe molecular interactions. , 2016, , .		0
206	Immunosensing with Near-Infrared Plasmonic Optical Fiber Gratings. Methods in Molecular Biology, 2017, 1571, 47-71.	0.4	0
207	Optical fiber gratings: hybrid gold structures for immunoassays. , 2019, , .		0
208	Plasmonic Optical Fiber Grating Aptasensing. , 2020, , .		0
209	Plasmonic optical fiber grating biomedical aptasensor. , 2021, , .		0
210	Immunoassays using tilted fiber Bragg gratings: an overview. , 2020, , .		0
211	Proteomics of Bronchoalveolar Lavage Fluid and Sputum. , 2007, , 309-325.		0