

Rory M Watt

List of Publications by Year in descending order

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65
papers

2,875
citations

172457

29
h-index

175258

52
g-index

67
all docs

67
docs citations

67
times ranked

4132
citing authors

#	ARTICLE	IF	CITATIONS
1	The Severe Acute Respiratory Syndrome (SARS) Coronavirus NTPase/Helicase Belongs to a Distinct Class of 5' to 3' Viral Helicases. <i>Journal of Biological Chemistry</i> , 2003, 278, 39578-39582.	3.4	183
2	The Adamantane-Derived Bananins Are Potent Inhibitors of the Helicase Activities and Replication of SARS Coronavirus. <i>Chemistry and Biology</i> , 2005, 12, 303-311.	6.0	145
3	Identification of Novel Small-Molecule Inhibitors of Severe Acute Respiratory Syndrome-Associated Coronavirus by Chemical Genetics. <i>Chemistry and Biology</i> , 2004, 11, 1293-1299.	6.0	141
4	Expression and mechanistic analysis of a germacradienol synthase from <i>Streptomyces coelicolor</i> implicated in geosmin biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 1547-1551.	7.1	131
5	Mechanism of 8-Amino-7-oxononanoate Synthase: Spectroscopic, Kinetic, and Crystallographic Studies. <i>Biochemistry</i> , 2000, 39, 516-528.	2.5	129
6	Periodontal and peri-implant microbiota in patients with healthy and inflamed periodontal and peri-implant tissues. <i>Clinical Oral Implants Research</i> , 2016, 27, 13-21.	4.5	116
7	Structural basis for discriminatory recognition of <i>Plasmodium</i> lactate dehydrogenase by a DNA aptamer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15967-15972.	7.1	109
8	Expression and characterization of a histidine-rich protein, Hpn: potential for Ni ²⁺ storage in <i>Helicobacter pylori</i> . <i>Biochemical Journal</i> , 2006, 393, 285-293.	3.7	107
9	A proteomic approach for the identification of bismuth-binding proteins in <i>Helicobacter pylori</i> . <i>Journal of Biological Inorganic Chemistry</i> , 2007, 12, 831-842.	2.6	93
10	Identification of factors influencing strand bias in oligonucleotide-mediated recombination in <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 2003, 31, 6674-6687.	14.5	90
11	<i>Pseudomonas aeruginosa</i> inhibits in-vitro <i>Candida</i> biofilm development. <i>BMC Microbiology</i> , 2010, 10, 125.	3.3	89
12	Bismuth Complexes Inhibit the SARS Coronavirus. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6464-6468.	13.8	86
13	Thermodynamic and Kinetic Aspects of Metal Binding to the Histidine-rich Protein, Hpn. <i>Journal of the American Chemical Society</i> , 2006, 128, 11330-11331.	13.7	78
14	Aptamer-Mediated Inhibition of <i>Mycobacterium tuberculosis</i> Polyphosphate Kinase 2. <i>Biochemistry</i> , 2011, 50, 3261-3271.	2.5	78
15	Small noncoding RNA GcvB is a novel regulator of acid resistance in <i>Escherichia coli</i> . <i>BMC Genomics</i> , 2009, 10, 165.	2.8	73
16	Intra-oral single-site comparisons of periodontal and peri-implant microbiota in health and disease. <i>Clinical Oral Implants Research</i> , 2019, 30, 760-776.	4.5	72
17	<i>Escherichia coli</i> and its lipopolysaccharide modulate in vitro <i>Candida</i> biofilm formation. <i>Journal of Medical Microbiology</i> , 2009, 58, 1623-1631.	1.8	67
18	Synthetic Peptides outside the Spike Protein Heptad Repeat Regions as Potent Inhibitors of Sars-Associated Coronavirus. <i>Antiviral Therapy</i> , 2005, 10, 393-403.	1.0	63

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19	Increased efficiency of oligonucleotide-mediated gene repair through slowing replication fork progression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 2508-2513.	7.1	59
20	Bacterial lipopolysaccharides variably modulate in vitro biofilm formation of <i>Candida</i> species. <i>Journal of Medical Microbiology</i> , 2010, 59, 1225-1234.	1.8	59
21	Salivary microbiome in non-oral disease: A summary of evidence and commentary. <i>Archives of Oral Biology</i> , 2017, 83, 169-173.	1.8	56
22	<i>Pseudomonas aeruginosa</i> lipopolysaccharide inhibits <i>Candida albicans</i> hyphae formation and alters gene expression during biofilm development. <i>Molecular Oral Microbiology</i> , 2013, 28, 54-69.	2.7	52
23	The involvement of replication in single stranded oligonucleotide-mediated gene repair. <i>Nucleic Acids Research</i> , 2006, 34, 6183-6194.	14.5	49
24	Two-dimensional gel electrophoresis in bacterial proteomics. <i>Protein and Cell</i> , 2012, 3, 346-363.	11.0	49
25	Secretory products of <i>Escherichia coli</i> biofilm modulate <i>Candida</i> biofilm formation and hyphal development. <i>Journal of Investigative and Clinical Dentistry</i> , 2013, 4, 186-199.	1.8	44
26	The Two PPX-GppA Homologues from <i>Mycobacterium tuberculosis</i> Have Distinct Biochemical Activities. <i>PLoS ONE</i> , 2012, 7, e42561.	2.5	37
27	Prevalence and diversity of <i>Synergistetes</i> taxa in periodontal health and disease. <i>Journal of Periodontal Research</i> , 2013, 48, 159-168.	2.7	37
28	Suicide inhibition of ϵ -oxamine synthases: structures of the covalent adducts of 8-amino-7-oxononanoate synthase with trifluoroalanine. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 1209.	2.8	35
29	Arginine deiminase pathway is far more important than urease for acid resistance and intracellular survival in <i>Laribacter hongkongensis</i> : a possible result of <i>arc</i> gene cassette duplication. <i>BMC Microbiology</i> , 2014, 14, 42.	3.3	35
30	Comparative analysis of oral treponemes associated with periodontal health and disease. <i>BMC Infectious Diseases</i> , 2013, 13, 174.	2.9	32
31	The Ps and Qs of alarmone synthesis in <i>Staphylococcus aureus</i> . <i>PLoS ONE</i> , 2019, 14, e0213630.	2.5	29
32	Functional dissection of an IFN- λ 2 receptor 1 promoter variant that confers higher risk to chronic hepatitis B virus infection. <i>Journal of Hepatology</i> , 2009, 51, 322-332.	3.7	28
33	In-depth snapshot of the equine subgingival microbiome. <i>Microbial Pathogenesis</i> , 2016, 94, 76-89.	2.9	26
34	Salivary microbiome of an urban Indian cohort and patterns linked to subclinical inflammation. <i>Oral Diseases</i> , 2017, 23, 926-940.	3.0	26
35	Species-Level Salivary Microbial Indicators of Well-Resolved Periodontitis: A Preliminary Investigation. <i>Frontiers in Cellular and Infection Microbiology</i> , 2019, 9, 347.	3.9	26
36	Use of a Riboswitch-controlled Conditional Hypomorphic Mutation to Uncover a Role for the Essential <i>csrA</i> Gene in Bacterial Autoaggregation. <i>Journal of Biological Chemistry</i> , 2009, 284, 28738-28745.	3.4	23

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37	Molecular characterization of arginine deiminase pathway in <i>Laribacter hongkongensis</i> and unique regulation of arginine catabolism and anabolism by multiple environmental stresses. <i>Environmental Microbiology</i> , 2015, 17, 4469-4483.	3.8	22
38	Distributions of Synergistetes in clinically-healthy and diseased periodontal and peri-implant niches. <i>Microbial Pathogenesis</i> , 2016, 94, 90-103.	2.9	22
39	Diversity of <i>Treponema denticola</i> and Other Oral Treponeme Lineages in Subjects with Periodontitis and Gingivitis. <i>Microbiology Spectrum</i> , 2021, 9, e0070121.	3.0	19
40	The mechanism of 7,8-diaminopelargonate synthase; the role of S-adenosylmethionine as the amino donor. <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 3498.	2.8	17
41	Targeted correction of a chromosomal point mutation by modified single-stranded oligonucleotides in a GFP recovery system. <i>Biochemical and Biophysical Research Communications</i> , 2005, 334, 1032-1041.	2.1	17
42	Oral Microbiota Transplant in Dogs with Naturally Occurring Periodontitis. <i>Journal of Dental Research</i> , 2021, 100, 764-770.	5.2	17
43	Subgingival microbiota of Sri Lankan tea labourers naïve to oral hygiene measures. <i>Journal of Clinical Periodontology</i> , 2014, 41, 433-441.	4.9	16
44	<i>Laribacter hongkongensis</i> anaerobic adaptation mediated by arginine metabolism is controlled by the cooperation of FNR and ArgR. <i>Environmental Microbiology</i> , 2017, 19, 1266-1280.	3.8	16
45	Visualizing the proteome of <i>Escherichia coli</i> : an efficient and versatile method for labeling chromosomal coding DNA sequences (CDSs) with fluorescent protein genes. <i>Nucleic Acids Research</i> , 2007, 35, e37-e37.	14.5	15
46	Functional characterization of an alkaline exonuclease and single strand annealing protein from the SXT genetic element of <i>Vibrio cholerae</i> . <i>BMC Molecular Biology</i> , 2011, 12, 16.	3.0	15
47	Salivary IL-1 β and red complex bacteria as predictors of the inflammatory status in subperi-implant niches of subjects with peri-implant mucositis. <i>Clinical Oral Implants Research</i> , 2016, 27, 662-667.	4.5	14
48	Environmental adaptability and stress tolerance of <i>Laribacter hongkongensis</i> : a genome-wide analysis. <i>Cell and Bioscience</i> , 2011, 1, 22.	4.8	13
49	Structural and functional insight into the mechanism of an alkaline exonuclease from <i>Laribacter hongkongensis</i> . <i>Nucleic Acids Research</i> , 2011, 39, 9803-9819.	14.5	13
50	Multilocus sequence analysis of <i>Treponema denticola</i> strains of diverse origin. <i>BMC Microbiology</i> , 2013, 13, 24.	3.3	13
51	Long-term impact of oral surgery with or without amoxicillin on the oral microbiome-A prospective cohort study. <i>Scientific Reports</i> , 2019, 9, 18761.	3.3	12
52	A method to generate recombinant <i>Salmonella typhi</i> Ty21a strains expressing multiple heterologous genes using an improved recombineering strategy. <i>Applied Microbiology and Biotechnology</i> , 2011, 91, 177-188.	3.6	11
53	pZMO7-Derived shuttle vectors for heterologous protein expression and proteomic applications in the ethanol-producing bacterium <i>Zymomonas mobilis</i> . <i>BMC Microbiology</i> , 2014, 14, 68.	3.3	10
54	Comparative immunological evaluation of recombinant <i>Salmonella Typhimurium</i> strains expressing model antigens as live oral vaccines. <i>BMC Immunology</i> , 2012, 13, 54.	2.2	9

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55	Oral treponeme major surface protein: Sequence diversity and distributions within periodontal niches. <i>Molecular Oral Microbiology</i> , 2017, 32, 455-474.	2.7	9
56	Characterisation of 8-amino-7-oxononanoate synthase: A bacterial PLP-dependent, acyl CoA condensing enzyme. <i>Biochemical Society Transactions</i> , 1998, 26, S268-S268.	3.4	8
57	Multilocus Sequence Analysis of Phylogroup 1 and 2 Oral Treponeme Strains. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	8
58	Complete Genome Sequence for <i>Treponema</i> sp. OMZ 838 (ATCC 700772, DSM 16789), Isolated from a Necrotizing Ulcerative Gingivitis Lesion. <i>Genome Announcements</i> , 2014, 2, .	0.8	7
59	Evaluation of peer-generated MCQs to assess and support learning in a problem-based learning programme. <i>European Journal of Dental Education</i> , 2018, 22, e358-e363.	2.0	7
60	Complete Genome Sequence of the Oral Spirochete Bacterium <i>Treponema putidum</i> Strain OMZ 758 (ATCC 700334). <i>Genome Announcements</i> , 2014, 2, .	0.8	6
61	Complete Genome Sequence of Human Oral Phylogroup 1 <i>Treponema</i> sp. Strain OMZ 804 (ATCC) Tj ETQq1 1 0.784314 rgBT /O Announcements, 2020, 9, .	0.6	3
62	Purification, crystallization and X-ray crystallographic analysis of a putative exopolyphosphatase from <i>Zymomonas mobilis</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2016, 72, 172-178.	0.8	2
63	Bismuth Complexes Inhibit the SARS Coronavirus. <i>Angewandte Chemie</i> , 2007, 119, 6584-6588.	2.0	1
64	Complete Genome Sequences of Three Human Oral <i>Treponema parvum</i> Isolates. <i>Microbiology Resource Announcements</i> , 2021, 10, e0039421.	0.6	1
65	In-depth sequence analysis of highly-conserved <i>pyrH</i> gene to study distributions of oral treponemes in periodontal disease versus health. <i>Journal of Oral Microbiology</i> , 2017, 9, 1325210.	2.7	0