Daniel C Walker

List of Publications by Year
in descending order

51 papers	1,827 citations	236612 25 h-index	288905 40 g-index
56 all docs	56 docs citations	56 times ranked	2191 citing authors

#	Article	IF	Citations
1	Challenges of using protein antibiotics for pathogen control. Pest Management Science, 2021, 77, 3836-3840.	1.7	4
2	Pyocin efficacy in a murine model of Pseudomonas aeruginosa sepsis. Journal of Antimicrobial Chemotherapy, 2021, 76, 2317-2324.	1.3	19
3	Targeted Delivery of Narrow-Spectrum Protein Antibiotics to the Lower Gastrointestinal Tract in a Murine Model of Escherichia coli Colonization. Frontiers in Microbiology, 2021, 12, 670535.	1.5	4
4	Engineering bacteriocinâ€mediated resistance against the plant pathogen Pseudomonas syringae. Plant Biotechnology Journal, 2020, 18, 1296-1306.	4.1	32
5	FusB Energizes Import across the Outer Membrane through Direct Interaction with Its Ferredoxin Substrate. MBio, 2020, 11, .	1.8	4
6	Bacteriocins Targeting Gram-Negative Phytopathogenic Bacteria: Plantibiotics of the Future. Frontiers in Microbiology, 2020, 11, 575981.	1.5	20
7	Pyocin S5 Import into Pseudomonas aeruginosa Reveals a Generic Mode of Bacteriocin Transport. MBio, 2020, 11, .	1.8	42
8	Propionic Acid Promotes the Virulent Phenotype of Crohnâ€™s Disease-Associated Adherent-Invasive Escherichia coli. Cell Reports, 2020, 30, 2297-2305.e5.	2.9	42
9	Microbiome-derived carnitine mimics as previously unknown mediators of gut-brain axis communication. Science Advances, 2020, 6, eaax6328.	4.7	45
10	Targeted Killing of Pseudomonas aeruginosa by Pyocin G Occurs via the Hemin Transporter Hur. Journal of Molecular Biology, 2020, 432, 3869-3880.	2.0	17
11	Screening of the Enterocin-Encoding Genes and Their Genetic Determinism in the Bacteriocinogenic Enterococcus faecium GHB21. Probiotics and Antimicrobial Proteins, 2019, 11, 325-331.	1.9	4
12	Protease-associated import systems are widespread in Gram-negative bacteria. PLoS Genetics, 2019, 15, e1008435.	1.5	15
13	Galleria mellonella as an infection model for the multi-host pathogen Streptococcus agalactiae reflects hypervirulence of strains associated with human invasive disease. Virulence, 2019, 10, 600-609.	1.8	18
14	Genomic and transcriptomic characterization of Pseudomonas aeruginosa small colony variants derived from a chronic infection model. Microbial Genomics, 2019, 5, .	1.0	16
15	Draft Genome Sequence of the Necrotrophic Plant-Pathogenic Bacterium Pectobacterium carotovorum subsp. carotovorum Strain LMG 2410. Microbiology Resource Announcements, 2019, 8, .	0.3	2
16	Protease-associated import systems are widespread in Gram-negative bacteria. , 2019, 15, e1008435.		0
17	Protease-associated import systems are widespread in Gram-negative bacteria. , 2019, 15, e1008435.		0
18	Protease-associated import systems are widespread in Gram-negative bacteria. , 2019, 15, e1008435.		0

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19	Protease-associated import systems are widespread in Gram-negative bacteria. , 2019, 15, e1008435.		0
20	Bacterial iron acquisition mediated by outer membrane translocation and cleavage of a host protein. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6840-6845.	3.3	29
21	Exploitation of an iron transporter for bacterial protein antibiotic import. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12051-12056.	3.3	76
22	The Structure of a Conserved Domain of TamB Reveals a Hydrophobic Î² Taco Fold. Structure, 2017, 25, 1898-1906.e5.	1.6	33
23	The therapeutic potential of bacteriocins as protein antibiotics. Emerging Topics in Life Sciences, 2017, 1, 65-74.	1.1	80
24	The Potassium Binding Protein Kbp Is a Cytoplasmic Potassium Sensor. Structure, 2016, 24, 741-749.	1.6	38
25	Discovery, characterization and inÂvivo activity of pyocin SD2, a protein antibiotic from Pseudomonas aeruginosa. Biochemical Journal, 2016, 473, 2345-2358.	1.7	42
26	Structural and biophysical analysis of nuclease protein antibiotics. Biochemical Journal, 2016, 473, 2799-2812.	1.7	12
27	Efficacy of species-specific protein antibiotics in a murine model of acute Pseudomonas aeruginosa lung infection. Scientific Reports, 2016, 6, 30201.	1.6	52
28	Structure of the bacterial plant-ferredoxin receptor FusA. Nature Communications, 2016, 7, 13308.	5.8	26
29	A Highly Conserved Bacterial D-Serine Uptake System Links Host Metabolism and Virulence. PLoS Pathogens, 2016, 12, e1005359.	2.1	55
30	Activity of Species-specific Antibiotics Against CrohnÊ¼s Diseaseâ€“Associated Adherent-invasive Escherichia coli. Inflammatory Bowel Diseases, 2015, 21, 1.	0.9	24
31	Structure of protease-cleavedEscherichia coliÎ±-2-macroglobulin reveals a putative mechanism of conformational activation for protease entrapment. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 1478-1486.	2.5	11
32	Consequences of Inducing Intrinsic Disorder in a High-Affinity Proteinâ€“Protein Interaction. Journal of the American Chemical Society, 2015, 137, 5252-5255.	6.6	23
33	Structures of the Ultra-High-Affinity Proteinâ€“Protein Complexes of Pyocins S2 and AP41 and Their Cognate Immunity Proteins from Pseudomonas aeruginosa. Journal of Molecular Biology, 2015, 427, 2852-2866.	2.0	25
34	Lectin-Like Bacteriocins from Pseudomonas spp. Utilise D-Rhamnose Containing Lipopolysaccharide as a Cellular Receptor. PLoS Pathogens, 2014, 10, e1003898.	2.1	56
35	Recombinant expression, purification, crystallization and preliminary X-ray diffraction analysis of the C-terminal DUF490963â€“1138domain of TamB fromEscherichia coli. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 1272-1275.	0.4	4
36	Structure of the atypical bacteriocin pectocin <scp>M</scp>2 implies a novel mechanism of protein uptake. Molecular Microbiology, 2014, 93, 234-246.	1.2	23

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37	Beware of proteins bearing gifts: protein antibiotics that use iron as a Trojan horse. FEMS Microbiology Letters, 2013, 338, 1-9.	0.7	19
38	Bacteriocins active against plant pathogenic bacteria. Biochemical Society Transactions, 2012, 40, 1498-1502.	1.6	34
39	Colicin-like bacteriocins as novel therapeutic agents for the treatment of chronic biofilm-mediated infection. Biochemical Society Transactions, 2012, 40, 1549-1552.	1.6	34
40	Activity of Pyocin S2 against Pseudomonas aeruginosa Biofilms. Antimicrobial Agents and Chemotherapy, 2012, 56, 1599-1601.	1.4	41
41	The Crystal Structure of the Lipid II-degrading Bacteriocin Syringacin M Suggests Unexpected Evolutionary Relationships between Colicin M-like Bacteriocins. Journal of Biological Chemistry, 2012, 287, 38876-38888.	1.6	31
42	Ferredoxin Containing Bacteriocins Suggest a Novel Mechanism of Iron Uptake in Pectobacterium spp. PLoS ONE, 2012, 7, e33033.	1.1	75
43	Discovery of an archetypal protein transport system in bacterial outer membranes. Nature Structural and Molecular Biology, 2012, 19, 506-510.	3.6	192
44	The Role of Electrostatics in Colicin Nuclease Domain Translocation into Bacterial Cells. Journal of Biological Chemistry, 2007, 282, 31389-31397.	1.6	59
45	Competitive recruitment of the periplasmic translocation portal TolB by a natively disordered domain of colicin E9. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 12353-12358.	3.3	68
46	Transcriptional Profiling of Colicin-Induced Cell Death of Escherichia coli MG1655 Identifies Potential Mechanisms by Which Bacteriocins Promote Bacterial Diversity. Journal of Bacteriology, 2004, 186, 866-869.	1.0	40
47	Identification of the catalytic motif of the microbial ribosome inactivating cytotoxin colicin E3. Protein Science, 2004, 13, 1603-1611.	3.1	37
48	Thermodynamic Consequences of Bipartite Immunity Protein Binding to the Ribosomal Ribonuclease Colicin E3â€. Biochemistry, 2003, 42, 4161-4171.	1.2	44
49	PrrC fromRhodobacter sphaeroides, a homologue of eukaryotic Sco proteins, is a copper-binding protein and may have a thiol-disulfide oxidoreductase activity. FEBS Letters, 2002, 518, 10-16.	1.3	57
50	Mechanism and cleavage specificity of the H-N-H endonuclease colicin E9 1 1Edited by J. Karn. Journal of Molecular Biology, 2001, 314, 735-749.	2.0	96
51	Immunity proteins: enzyme inhibitors that avoid the active site. Trends in Biochemical Sciences, 2001, 26, 624-631.	3.7	100