Martin Welch

List of Publications by Year
in descending order

66 papers	2,831 citations	186265 28 h-index	189892 50 g-index
74 all docs	74 docs citations	74 times ranked	3763 citing authors

#	Article	IF	Citations
1	Decreased efficacy of antimicrobial agents in a polymicrobial environment. ISME Journal, 2022, 16, 1694-1704.	9.8	23
2	Structure-Based Discovery of Lipoteichoic Acid Synthase Inhibitors. Journal of Chemical Information and Modeling, 2022, 62, 2586-2599.	5.4	13
3	Short-chain reactive probes as tools to unravel the Pseudomonas aeruginosa quorum sensing regulon. Chemical Science, 2021, 12, 4570-4581.	7.4	6
4	Virulence and antimicrobial resistance genes are enriched in the plasmidome of clinical Escherichia coli isolates compared with wastewater isolates from western Kenya. Infection, Genetics and Evolution, 2021, 91, 104784.	2.3	5
5	An in vitro model for the cultivation of polymicrobial biofilms under continuous-flow conditions. F1000Research, 2021, 10, 801.	1.6	6
6	Structure, Function and Regulation of a Second Pyruvate Kinase Isozyme in Pseudomonas aeruginosa. Frontiers in Microbiology, 2021, 12, 790742.	3.5	3
7	The Pseudomonas aeruginosa whole genome sequence: A 20th anniversary celebration. Advances in Microbial Physiology, 2021, 79, 25-88.	2.4	7
8	The methylation-independent mismatch repair machinery in Pseudomonas aeruginosa. Microbiology (United Kingdom), 2021, 167, .	1.8	4
9	Transcriptional regulation of central carbon metabolism in Pseudomonas aeruginosa. Microbial Biotechnology, 2020, 13, 285-289.	4.2	10
10	Global reprogramming of virulence and antibiotic resistance in Pseudomonas aeruginosa by a single nucleotide polymorphism in elongation factor, fusA1. Journal of Biological Chemistry, 2020, 295, 16411-16426.	3.4	17
11	Arming the troops: Post-translational modification of extracellular bacterial proteins. Science Progress, 2020, 103, 003685042096431.	1.9	8
12	Contextual Flexibility in Pseudomonas aeruginosa Central Carbon Metabolism during Growth in Single Carbon Sources. MBio, 2020, 11, .	4.1	57
13	Divergent Synthesis of Novel Cylindrocyclophanes that Inhibit MethicillinâEResistant Staphylococcus aureus (MRSA). ChemMedChem, 2020, 15, 1289-1293.	3.2	4
14	The whole-genome sequence analysis of Enterobacter cloacae strain Ghats1: insights into endophytic lifestyle-associated genomic adaptations. Archives of Microbiology, 2020, 202, 1571-1579.	2.2	21
15	2-Aminopyridine Analogs Inhibit Both Enzymes of the Glyoxylate Shunt in Pseudomonas aeruginosa. International Journal of Molecular Sciences, 2020, 21, 2490.	4.1	5
16	Origin of cooperativity in the activation of dimeric transcription factors. Physical Review Research, 2020, 2, .	3.6	2
17	Controlling the hypermutation: Exploitation of the MutS protein in Pseudomonas aeruginosa. Access Microbiology, 2020, 2, .	0.5	0
18	A Continuous-Flow Model for in vitro Cultivation of Mixed Microbial Populations Associated With Cystic Fibrosis Airway Infections. Frontiers in Microbiology, 2019, 10, 2713.	3.5	11

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19	Evolutionary plasticity in the allosteric regulator-binding site of pyruvate kinase isoform PykA from Pseudomonas aeruginosa. Journal of Biological Chemistry, 2019, 294, 15505-15516.	3.4	14
20	Recapitulation of polymicrobial communities associated with cystic fibrosis airway infections: a perspective. Future Microbiology, 2019, 14, 1437-1450.	2.0	19
21	Community-led comparative genomic and phenotypic analysis of the aquaculture pathogen Pseudomonas baetica a390T sequenced by Ion semiconductor and Nanopore technologies. FEMS Microbiology Letters, 2018, 365, .	1.8	17
22	Purification and characterisation of a quorum quenching AHL-lactonase from the endophytic bacterium Enterobacter sp. CS66. FEMS Microbiology Letters, 2018, 365, .	1.8	26
23	Strategies for managing rival bacterial communities: Lessons from burying beetles. Journal of Animal Ecology, 2018, 87, 414-427.	2.8	57
24	Synthesis and biological evaluation of 1,2-disubstituted 4-quinolone analogues of Pseudonocardia sp. natural products. Beilstein Journal of Organic Chemistry, 2018, 14, 2680-2688.	2.2	7
25	The Glyoxylate Shunt, 60 Years On. Annual Review of Microbiology, 2018, 72, 309-330.	7.3	111
26	Ciprofloxacin binding to GyrA causes global changes in the proteome of Pseudomonas aeruginosa. FEMS Microbiology Letters, 2018, 365, .	1.8	10
27	Gluconeogenic precursor availability regulates flux through the glyoxylate shunt in Pseudomonas aeruginosa. Journal of Biological Chemistry, 2018, 293, 14260-14269.	3.4	43
28	Loving the poison: the methylcitrate cycle and bacterial pathogenesis. Microbiology (United Kingdom), 2018, 164, 251-259.	1.8	39
29	Matrix exopolysaccharides; the sticky side of biofilm formation. FEMS Microbiology Letters, 2017, 364, .	1.8	113
30	Protein modification via alkyne hydrosilylation using a substoichiometric amount of ruthenium(<scp>ii</scp>) catalyst. Chemical Science, 2017, 8, 3871-3878.	7.4	18
31	No evidence of a cleaning mutualism between burying beetles and their phoretic mites. Scientific Reports, 2017, 7, 13838.	3.3	4
32	Identification of new quorum sensing autoinducer binding partners in Pseudomonas aeruginosa using photoaffinity probes. Chemical Science, 2017, 8, 7403-7411.	7.4	24
33	Structural and Functional Characterization of Malate Synthase G from Opportunistic Pathogen Pseudomonas aeruginosa. Biochemistry, 2017, 56, 5539-5549.	2.5	12
34	Discovery of an inhibitor of the production of the Pseudomonas aeruginosa virulence factor pyocyanin in wild-type cells. Beilstein Journal of Organic Chemistry, 2016, 12, 1428-1433.	2.2	19
35	Impact of Azithromycin on the Quorum Sensing-Controlled Proteome of Pseudomonas aeruginosa. PLoS ONE, 2016, 11, e0147698.	2.5	37
36	The Pseudomonas Quinolone Signal (PQS). Israel Journal of Chemistry, 2016, 56, 282-294.	2.3	18

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37	The Synthesis of Quinolone Natural Products from Pseudonocardia sp.. European Journal of Organic Chemistry, 2016, 2016, 434-437.	2.4	25
38	A new Pseudomonas quinolone signal (PQS) binding partner: MexG. Chemical Science, 2016, 7, 2553-2562.	7.4	38
39	A Plasmid-Transposon Hybrid Mutagenesis System Effective in a Broad Range of Enterobacteria. Frontiers in Microbiology, 2015, 6, 1442.	3.5	13
40	Microbial Biofilm as a Smart Material. Sensors, 2015, 15, 4229-4241.	3.8	7
41	Quorum Sensing Is Accompanied by Global Metabolic Changes in the Opportunistic Human Pathogen Pseudomonas aeruginosa. Journal of Bacteriology, 2015, 197, 2072-2082.	2.2	91
42	Mep72, a Metzincin Protease That Is Preferentially Secreted by Biofilms of Pseudomonas aeruginosa. Journal of Bacteriology, 2015, 197, 762-773.	2.2	32
43	Multifunctional supramolecular polymer networks as next-generation consolidants for archaeological wood conservation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17743-17748.	7.1	50
44	Universal soldier: Pseudomonas aeruginosa â€" an opportunistic generalist. Frontiers in Biology, 2013, 8, 387-394.	0.7	2
45	Virulence in <scp>P</scp>ectobacterium atrosepticum is regulated by a coincidence circuit involving quorum sensing and the stress alarmone, (p)pp<scp>G</scp>pp. Molecular Microbiology, 2013, 90, 457-471.	2.5	44
46	Surface swarming motility by Pectobacterium atrosepticum is a latent phenotype that requires O antigen and is regulated by quorum sensing. Microbiology (United Kingdom), 2013, 159, 2375-2385.	1.8	24
47	Ligand Binding Kinetics of the Quorum Sensing Regulator PqsR. Biochemistry, 2013, 52, 4433-4438.	2.5	11
48	Why is Pseudomonas aeruginosa a common cause of infection in individuals with cystic fibrosis?. Future Microbiology, 2013, 8, 697-699.	2.0	5
49	Kinetic Model for Signal Binding to the Quorum Sensing Regulator LasR. International Journal of Molecular Sciences, 2013, 14, 13360-13376.	4.1	8
50	Type III secretion system expression in oxygen-limited Pseudomonas aeruginosa cultures is stimulated by isocitrate lyase activity. Open Biology, 2013, 3, 120131.	3.6	25
51	Genomic Variation among Contemporary Pseudomonas aeruginosa Isolates from Chronically Infected Cystic Fibrosis Patients. Journal of Bacteriology, 2012, 194, 4857-4866.	2.2	79
52	Design, synthesis and biological evaluation of non-natural modulators of quorum sensing in Pseudomonas aeruginosa. Organic and Biomolecular Chemistry, 2012, 10, 6032.	2.8	68
53	Microwave-assisted preparation of the quorum-sensing molecule 2-heptyl-3-hydroxy-4(1H)-quinolone and structurally related analogs. Nature Protocols, 2012, 7, 1184-1192.	12.0	20
54	Microwave and flow syntheses of Pseudomonasquinolone signal (PQS) and analogues. Organic and Biomolecular Chemistry, 2011, 9, 57-61.	2.8	48

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55	Quorum Sensing in Gram-Negative Bacteria: Small-Molecule Modulation of AHL and AI-2 Quorum Sensing Pathways. Chemical Reviews, 2011, 111, 28-67.	47.7	549
56	The Pseudomonas aeruginosa generalized transducing phage Ï†PA3 is a new member of the Ï†KZ-like group of â€˜jumboâ€™ phages, and infects model laboratory strains and clinical isolates from cystic fibrosis patients. Microbiology (United Kingdom), 2011, 157, 859-867.	1.8	56
57	Structure-Activity Analysis of the Pseudomonas Quinolone Signal Molecule. Journal of Bacteriology, 2010, 192, 3833-3837.	2.2	47
58	Mutation of nfxB Causes Global Changes in the Physiology and Metabolism of Pseudomonas aeruginosa. Journal of Proteome Research, 2010, 9, 2957-2967.	3.7	83
59	Biofilms and type III secretion are not mutually exclusive in Pseudomonas aeruginosa. Microbiology (United Kingdom), 2009, 155, 687-698.	1.8	43
60	Interrelationships between Colonies, Biofilms, and Planktonic Cells of Pseudomonas aeruginosa. Journal of Bacteriology, 2007, 189, 2411-2416.	2.2	114
61	Variations on a Theme: Diverse N-Acyl Homoserine Lactone-Mediated Quorum Sensing Mechanisms in Gram-Negative Bacteria. Science Progress, 2006, 89, 167-211.	1.9	74
62	Structureâ€“activity relationships of Erwinia carotovora quorum sensing signaling molecules. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 4235-4238.	2.2	37
63	Cellâ€“cell communication in Gram-negative bacteria. Molecular BioSystems, 2005, 1, 196-202.	2.9	47
64	The regulation of virulence in phytopathogenic Erwinia species: quorum sensing, antibiotics and ecological considerations. Antonie Van Leeuwenhoek, 2002, 81, 223-231.	1.7	110
65	Silencing the majority. Nature Biotechnology, 2001, 19, 735-736.	17.5	27
66	N-acyl homoserine lactone binding to the CarR receptor determines quorum-sensing specificity in Erwinia. EMBO Journal, 2000, 19, 631-641.	7.8	168