

Stephan Heeb

List of Publications by Year in descending order

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58
papers

6,090
citations

136885

32
h-index

143943

57
g-index

62
all docs

62
docs citations

62
times ranked

5644
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell-cell signaling in <i>Xanthomonas campestris</i> involves an HD-GYP domain protein that functions in cyclic di-GMP turnover. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 6712-6717.	3.3	499
2	Quinolones: from antibiotics to autoinducers. <i>FEMS Microbiology Reviews</i> , 2011, 35, 247-274.	3.9	477
3	Regulatory Roles of the GacS/GacA Two-Component System in Plant-Associated and Other Gram-Negative Bacteria. <i>Molecular Plant-Microbe Interactions</i> , 2001, 14, 1351-1363.	1.4	412
4	Small, Stable Shuttle Vectors Based on the Minimal pVS1 Replicon for Use in Gram-Negative, Plant-Associated Bacteria. <i>Molecular Plant-Microbe Interactions</i> , 2000, 13, 232-237.	1.4	356
5	Regulatory RNA as Mediator in GacA/RsmA-Dependent Global Control of Exoproduct Formation in <i>Pseudomonas fluorescens</i> CHA0. <i>Journal of Bacteriology</i> , 2002, 184, 1046-1056.	1.0	341
6	Salicylic Acid Biosynthetic Genes Expressed in <i>Pseudomonas fluorescens</i> Strain P3 Improve the Induction of Systemic Resistance in Tobacco Against Tobacco Necrosis Virus. <i>Phytopathology</i> , 1998, 88, 678-684.	1.1	310
7	Positive Control of Swarming, Rhamnolipid Synthesis, and Lipase Production by the Posttranscriptional RsmA/RsmZ System in <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Bacteriology</i> , 2004, 186, 2936-2945.	1.0	275
8	Global GacA-steered control of cyanide and exoprotease production in <i>Pseudomonas fluorescens</i> involves specific ribosome binding sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 14073-14078.	3.3	249
9	The <i>Pseudomonas aeruginosa</i> sensor RetS switches Type III and Type VI secretion via c-di-GMP signalling. <i>Environmental Microbiology</i> , 2011, 13, 3128-3138.	1.8	245
10	Genome Diversity of <i>Pseudomonas aeruginosa</i> PAO1 Laboratory Strains. <i>Journal of Bacteriology</i> , 2010, 192, 1113-1121.	1.0	242
11	RsmY, a small regulatory RNA, is required in concert with RsmZ for GacA-dependent expression of biocontrol traits in <i>Pseudomonas fluorescens</i> CHA0. <i>Molecular Microbiology</i> , 2003, 50, 1361-1379.	1.2	199
12	Structural Basis for Native Agonist and Synthetic Inhibitor Recognition by the <i>Pseudomonas aeruginosa</i> Quorum Sensing Regulator PqsR (MvfR). <i>PLoS Pathogens</i> , 2013, 9, e1003508.	2.1	185
13	Extracellular Protease of <i>Pseudomonas fluorescens</i> CHA0, a Biocontrol Factor with Activity against the Root-Knot Nematode <i>Meloidogyne incognita</i> . <i>Applied and Environmental Microbiology</i> , 2005, 71, 5646-5649.	1.4	169
14	The small RNA PhrS stimulates synthesis of the <i>Pseudomonas aeruginosa</i> quinolone signal. <i>Molecular Microbiology</i> , 2011, 80, 868-885.	1.2	145
15	Clinical utilization of genomics data produced by the international <i>Pseudomonas aeruginosa</i> consortium. <i>Frontiers in Microbiology</i> , 2015, 6, 1036.	1.5	144
16	Unravelling the Genome-Wide Contributions of Specific 2-Alkyl-4-Quinolones and PqsE to Quorum Sensing in <i>Pseudomonas aeruginosa</i> . <i>PLoS Pathogens</i> , 2016, 12, e1006029.	2.1	140
17	GacS Sensor Domains Pertinent to the Regulation of Exoproduct Formation and to the Biocontrol Potential of <i>Pseudomonas fluorescens</i> CHA0. <i>Molecular Plant-Microbe Interactions</i> , 2003, 16, 634-644.	1.4	139
18	Quorum quenching activity in <i>Anabaena</i> sp. PCC 7120: identification of AiiC, a novel AHL-acylase. <i>FEMS Microbiology Letters</i> , 2008, 280, 73-80.	0.7	139

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19	Transcriptomic analysis reveals a global alkylquinolone-independent regulatory role for PqsE in facilitating the environmental adaptation of <i>Pseudomonas aeruginosa</i> to plant and animal hosts. <i>Environmental Microbiology</i> , 2010, 12, 1659-1673.	1.8	122
20	Role of the stress sigma factor RpoS in GacA/RsmA-controlled secondary metabolism and resistance to oxidative stress in <i>Pseudomonas fluorescens</i> CHA0. <i>FEMS Microbiology Letters</i> , 2005, 243, 251-258.	0.7	93
21	Structural Rearrangement in an RsmA/CsrA Ortholog of <i>Pseudomonas aeruginosa</i> Creates a Dimeric RNA-Binding Protein, RsmN. <i>Structure</i> , 2013, 21, 1659-1671.	1.6	88
22	Functional Analysis of the Post-transcriptional Regulator RsmA Reveals a Novel RNA-binding Site. <i>Journal of Molecular Biology</i> , 2006, 355, 1026-1036.	2.0	87
23	Differential Regulation of the Phenazine Biosynthetic Operons by Quorum Sensing in <i>Pseudomonas aeruginosa</i> PAO1-N. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 252.	1.8	79
24	The Gac/Rsm and cyclic-di-GMP signalling networks coordinately regulate iron uptake in <i>Pseudomonas aeruginosa</i> . <i>Environmental Microbiology</i> , 2014, 16, 676-688.	1.8	76
25	RsmW, <i>Pseudomonas aeruginosa</i> small non-coding RsmA-binding RNA upregulated in biofilm versus planktonic growth conditions. <i>BMC Microbiology</i> , 2016, 16, 155.	1.3	76
26	Genome-wide search reveals a novel GacA-regulated small RNA in <i>Pseudomonas</i> species. <i>BMC Genomics</i> , 2008, 9, 167.	1.2	73
27	Genome-wide mapping of the RNA targets of the <i>Pseudomonas aeruginosa</i> riboregulatory protein RsmN. <i>Nucleic Acids Research</i> , 2018, 46, 6823-6840.	6.5	58
28	A LuxR family regulatory system controls excision and transfer of the <i>Mesorhizobium loti</i> strain R7A symbiosis island by activating expression of two conserved hypothetical genes. <i>Molecular Microbiology</i> , 2009, 73, 1141-1155.	1.2	57
29	A sequence-based approach for prediction of CsrA/RsmA targets in bacteria with experimental validation in <i>Pseudomonas aeruginosa</i> . <i>Nucleic Acids Research</i> , 2014, 42, 6811-6825.	6.5	54
30	In Silico and in Vitro-Guided Identification of Inhibitors of Alkylquinolone-Dependent Quorum Sensing in <i>Pseudomonas aeruginosa</i> . <i>Molecules</i> , 2018, 23, 257.	1.7	47
31	A Novel Virulence Strategy for <i>Pseudomonas aeruginosa</i> Mediated by an Autotransporter with Arginine-Specific Aminopeptidase Activity. <i>PLoS Pathogens</i> , 2012, 8, e1002854.	2.1	45
32	Evolving cell models for systems and synthetic biology. <i>Systems and Synthetic Biology</i> , 2010, 4, 55-84.	1.0	40
33	Engineering <i>Cupriavidus necator</i> H16 for the autotrophic production of (R)-1,3-butanediol. <i>Metabolic Engineering</i> , 2021, 67, 262-276.	3.6	36
34	Identification of a <i>Pseudomonas aeruginosa</i> PAO1 DNA Methyltransferase, Its Targets, and Physiological Roles. <i>MBio</i> , 2017, 8, .	1.8	32
35	Hit Identification of New Potent PqsR Antagonists as Inhibitors of Quorum Sensing in Planktonic and Biofilm Crown <i>Pseudomonas aeruginosa</i> . <i>Frontiers in Chemistry</i> , 2020, 8, 204.	1.8	29
36	Optimised chronic infection models demonstrate that siderophore "cheating" in <i>Pseudomonas aeruginosa</i> is context specific. <i>ISME Journal</i> , 2017, 11, 2492-2509.	4.4	28

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37	When Genome-Based Approach Meets the “Old but Good”, Revealing Genes Involved in the Antibacterial Activity of <i>Pseudomonas</i> sp. P482 against Soft Rot Pathogens. <i>Frontiers in Microbiology</i> , 2016, 7, 782.	1.5	27
38	Effect of Overexpressing <i>rsmA</i> from <i>Pseudomonas aeruginosa</i> on Virulence of Select Phytotoxin-Producing Strains of <i>P. syringae</i> . <i>Phytopathology</i> , 2012, 102, 575-587.	1.1	25
39	Synthesis and cell-free cloning of DNA libraries using programmable microfluidics. <i>Nucleic Acids Research</i> , 2016, 44, e35-e35.	6.5	23
40	Emergence of Secretion-Defective Sublines of <i>Pseudomonas aeruginosa</i> PAO1 Resulting from Spontaneous Mutations in the <i>vfr</i> Global Regulatory Gene. <i>Applied and Environmental Microbiology</i> , 2008, 74, 1902-1908.	1.4	22
41	The <i>Pseudomonas putida</i> CsrA/RsmA homologues negatively affect c-di-GMP pools and biofilm formation through the GGDEF/EAL response regulator CfcR. <i>Environmental Microbiology</i> , 2017, 19, 3551-3566.	1.8	22
42	Design and Evaluation of New Quinazolin-4(3 <i>H</i>)-one Derived PqsR Antagonists as Quorum Sensing Quenchers in <i>Pseudomonas aeruginosa</i> . <i>ACS Infectious Diseases</i> , 2021, 7, 2666-2685.	1.8	22
43	Fatty acid-mediated signalling between two <i>Pseudomonas</i> species. <i>Environmental Microbiology Reports</i> , 2012, 4, 417-423.	1.0	20
44	Biotic inactivation of the <i>Pseudomonas aeruginosa</i> quinolone signal molecule. <i>Environmental Microbiology</i> , 2015, 17, 4352-4365.	1.8	20
45	2-Tridecanone impacts surface-associated bacterial behaviours and hinders plant-bacteria interactions. <i>Environmental Microbiology</i> , 2018, 20, 2049-2065.	1.8	18
46	PpoR, an orphan LuxR-family protein of <i>Pseudomonas putida</i> KT2440, modulates competitive fitness and surface motility independently of <i>N-acylhomoserine lactones</i> . <i>Environmental Microbiology Reports</i> , 2011, 3, 79-85.	1.0	15
47	Granulocyte-Macrophage Colony Stimulatory Factor Enhances the Pro-Inflammatory Response of Interferon- β -Treated Macrophages to <i>Pseudomonas aeruginosa</i> Infection. <i>PLoS ONE</i> , 2015, 10, e0117447.	1.1	14
48	The acylase PvdQ has a conserved function among fluorescent <i>Pseudomonas</i> spp.. <i>Environmental Microbiology Reports</i> , 2010, 2, 433-439.	1.0	13
49	Mushroom-shaped structures formed in <i>Acinetobacter baumannii</i> biofilms grown in a roller bioreactor are associated with quorum sensing-dependent Csu pilus assembly. <i>Environmental Microbiology</i> , 2022, 24, 4329-4339.	1.8	12
50	Functional identification of the prnABCD operon and its regulation in <i>Serratia plymuthica</i> . <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 3711-3721.	1.7	11
51	Genome-Wide Analysis of Targets for Post-Transcriptional Regulation by Rsm Proteins in <i>Pseudomonas putida</i> . <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 624061.	1.6	8
52	Disruption of the <i>Pseudomonas aeruginosa</i> Tat system perturbs PQS-dependent quorum sensing and biofilm maturation through lack of the Rieske cytochrome bc1 sub-unit. <i>PLoS Pathogens</i> , 2021, 17, e1009425.	2.1	8
53	<i>Actinomadura graeca</i> sp. nov.: A novel producer of the macrocyclic antibiotic zelvovamycin. <i>PLoS ONE</i> , 2021, 16, e0260413.	1.1	7
54	Post-Transcriptional Regulation in <i>Pseudomonas</i> SPP. Via the Gac/Rsm Regulatory Network. , 2004, , 239-255.		6

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55	Combining Inducible Lectin Expression and Magnetic Glyconanoparticles for the Selective Isolation of Bacteria from Mixed Populations. ACS Applied Materials & Interfaces, 2021, 13, 19230-19243.	4.0	4
56	2-Alkyl-4(1H)-Quinolone Signalling in <i>Pseudomonas aeruginosa</i> . , 2010, , 29-57.		2
57	The <i>Pseudomonas aeruginosa</i> sensor RetS switches Type III and Type VI secretion via c-di-GMP signalling. Environmental Microbiology, 2012, 14, 1088-1089.	1.8	1
58	Professor Dieter Haas (1945â€“2017). FEMS Microbiology Reviews, 2017, 41, 597-598.	3.9	1