Ralf Heermann

List of Publications by Year
in descending order

72 papers	2,475 citations	236925 25 h-index	223800 46 g-index
82 all docs	82 docs citations	82 times ranked	3159 citing authors

#	Article	IF	Citations
1	Disulfide HMGB1 derived from platelets coordinates venous thrombosis in mice. Blood, 2016, 128, 2435-2449.	1.4	219
2	Histidine kinases and response regulators in networks. Current Opinion in Microbiology, 2012, 15, 118-124.	5.1	204
3	Pyrones as bacterial signaling molecules. Nature Chemical Biology, 2013, 9, 573-578.	8.0	180
4	Dialkylresorcinols as bacterial signaling molecules. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 572-577.	7.1	117
5	Purification, Reconstitution, and Characterization of the CpxRAP Envelope Stress System of Escherichia coli. Journal of Biological Chemistry, 2007, 282, 8583-8593.	3.4	101
6	Stimulation of the potassium sensor KdpD kinase activity by interaction with the phosphotransferase protein IIA^{Ntr} in <i>Escherichia coli</i>. Molecular Microbiology, 2009, 72, 978-994.	2.5	98
7	Comparative analysis of the Photorhabdus luminescens and the Yersinia enterocolitica genomes: uncovering candidate genes involved in insect pathogenicity. BMC Genomics, 2008, 9, 40.	2.8	81
8	A Sensory Complex Consisting of an ATP-binding Cassette Transporter and a Two-component Regulatory System Controls Bacitracin Resistance in Bacillus subtilis. Journal of Biological Chemistry, 2014, 289, 27899-27910.	3.4	73
9	The complexity of the â€˜simpleâ€™ two-component system KdpD/KdpE in<i>Escherichia coli</i>. FEMS Microbiology Letters, 2010, 304, 97-106.	1.8	71
10	The Universal Stress Protein UspC Scaffolds the KdpD/KdpE Signaling Cascade of Escherichia coli under Salt Stress. Journal of Molecular Biology, 2009, 386, 134-148.	4.2	69
11	Simple generation of site-directed point mutations in the Escherichia coli chromosome using RedÂ®/ETÂ® Recombination. Microbial Cell Factories, 2008, 7, 14.	4.0	63
12	Photorhabdus luminescens genes induced upon insect infection. BMC Genomics, 2008, 9, 229.	2.8	48
13	Single Cell Kinetics of Phenotypic Switching in the Arabinose Utilization System of E. coli. PLoS ONE, 2014, 9, e89532.	2.5	48
14	Languages and dialects: bacterial communication beyond homoserine lactones. Trends in Microbiology, 2015, 23, 521-523.	7.7	46
15	Structure-function analysis of the DNA-binding domain of a transmembrane transcriptional activator. Scientific Reports, 2017, 7, 1051.	3.3	46
16	The great potential of entomopathogenic bacteria Xenorhabdus and Photorhabdus for mosquito control: a review. Parasites and Vectors, 2020, 13, 376.	2.5	44
17	Oral toxicity of Photorhabdus luminescens and Xenorhabdus nematophila (Enterobacteriaceae) against Aedes aegypti (Diptera: Culicidae). Parasitology Research, 2013, 112, 2891-2896.	1.6	43
18	Promoter Activation in Î”<i>hfq</i> Mutants as an Efficient Tool for Specialized Metabolite Production Enabling Direct Bioactivity Testing. Angewandte Chemie - International Edition, 2019, 58, 18957-18963.	13.8	40

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19	LuxR solos in Photorhabdus species. Frontiers in Cellular and Infection Microbiology, 2014, 4, 166.	3.9	35
20	The N-terminal Input Domain of the Sensor Kinase KdpD of Escherichia coli Stabilizes the Interaction between the Cognate Response Regulator KdpE and the Corresponding DNA-binding Site. Journal of Biological Chemistry, 2003, 278, 51277-51284.	3.4	33
21	A Dual-Sensing Receptor Confers Robust Cellular Homeostasis. Cell Reports, 2016, 16, 213-221.	6.4	32
22	Specificity of Signal-Binding via Non-AHL LuxR-Type Receptors. PLoS ONE, 2015, 10, e0124093.	2.5	32
23	The Hydrophilic N-terminal Domain Complements the Membrane-anchored C-terminal Domain of the Sensor Kinase KdpD ofEscherichia coli. Journal of Biological Chemistry, 2000, 275, 17080-17085.	3.4	31
24	Analysis of two-component signal transduction by mathematical modeling using the KdpD/KdpE system of Escherichia coli. BioSystems, 2004, 78, 23-37.	2.0	30
25	The turgor sensor KdpD of Escherichia coli is a homodimer. Biochimica Et Biophysica Acta - Biomembranes, 1998, 1415, 114-124.	2.6	29
26	New Vocabulary for Bacterial Communication. ChemBioChem, 2020, 21, 759-768.	2.6	29
27	Quantification of Interaction Strengths between Chaperones and Tetratricopeptide Repeat Domain-containing Membrane Proteins. Journal of Biological Chemistry, 2013, 288, 30614-30625.	3.4	28
28	CipA and CipB as Scaffolds To Organize Proteins into Crystalline Inclusions. ACS Synthetic Biology, 2017, 6, 826-836.	3.8	28
29	The transmembrane domains of the sensor kinase KdpD of Escherichia coli are not essential for sensing K+ limitation. Molecular Microbiology, 2003, 47, 839-848.	2.5	27
30	Nonâ€canonical activation of histidine kinase KdpD by phosphotransferase protein PtsN through interaction with the transmitter domain. Molecular Microbiology, 2017, 106, 54-73.	2.5	26
31	Small <scp>RNA</scp> â€binding protein RapZ mediates cell envelope precursor sensing and signaling in <i>Escherichia coli</i>. EMBO Journal, 2020, 39, e103848.	7.8	23
32	Genetic Characterization of the Galactitol Utilization Pathway of Salmonella enterica Serovar Typhimurium. Journal of Bacteriology, 2017, 199, .	2.2	22
33	Phenotypic and genomic comparison of Photorhabdus luminescens subsp. laumondii TT01 and a widely used rifampicin-resistant Photorhabdus luminescens laboratory strain. BMC Genomics, 2018, 19, 854.	2.8	22
34	Coming in and Finding Out: Blending Receptorâ€Targeted Delivery and Efficient Endosomal Escape in a Novel Bioâ€Responsive siRNA Delivery System for Gene Knockdown in Pulmonary T Cells. Advanced Therapeutics, 2019, 2, 1900047.	3.2	21
35	Nanocomposite antimicrobials prevent bacterial growth through the enzyme-like activity of Bi-doped cerium dioxide (Ce_{1âˆ’x}Bi_xO_{2âˆ’Î´}). Nanoscale, 2020, 12, 21344-21358.	5.6	20
36	Structural features and mechanisms for sensing high osmolarity in microorganisms. Current Opinion in Microbiology, 2004, 7, 168-174.	5.1	19

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37	The Biocontrol Agent and Insect Pathogen Photorhabdus luminescens Interacts with Plant Roots. Applied and Environmental Microbiology, 2020, 86, .	3.1	18
38	Regulation of Phenotypic Switching and Heterogeneity in Photorhabdus luminescens Cell Populations. Journal of Molecular Biology, 2019, 431, 4559-4568.	4.2	17
39	Effect of cysteine replacements on the properties of the turgor sensor KdpD of Escherichia coli. Biochimica Et Biophysica Acta - Biomembranes, 1998, 1372, 311-322.	2.6	16
40	Entomopathogenic bacteriaPhotorhabdus luminescensas drug source againstLeishmania amazonensis. Parasitology, 2018, 145, 1065-1074.	1.5	16
41	Promoter Activation in Î” hfq Mutants as an Efficient Tool for Specialized Metabolite Production Enabling Direct Bioactivity Testing. Angewandte Chemie, 2019, 131, 19133-19139.	2.0	16
42	Phenotypic Heterogeneity of the Insect Pathogen Photorhabdus luminescens: Insights into the Fate of Secondary Cells. Applied and Environmental Microbiology, 2019, 85, .	3.1	16
43	Interaction Analysis of a Two-Component System Using Nanodiscs. PLoS ONE, 2016, 11, e0149187.	2.5	15
44	HexA is a versatile regulator involved in the control of phenotypic heterogeneity of Photorhabdus luminescens. PLoS ONE, 2017, 12, e0176535.	2.5	15
45	Phosphorylation of the outer membrane mitochondrial protein OM64 influences protein import into mitochondria. Mitochondrion, 2019, 44, 93-102.	3.4	15
46	Deciphering the Rules Underlying Xenogeneic Silencing and Counter-Silencing of Lsr2-like Proteins Using CgpS of Corynebacterium glutamicum as a Model. MBio, 2020, 11, .	4.1	15
47	A chimeric Anabaena / Escherichia coli KdpD protein (Anacoli KdpD) functionally interacts with E. coli KdpE and activates kdp expression in E. coli. Archives of Microbiology, 2002, 178, 141-148.	2.2	14
48	Domain swapping reveals that the N-terminal domain of the sensor kinase KdpD in Escherichia coli is important for signaling. BMC Microbiology, 2009, 9, 133.	3.3	14
49	A novel tool for stable genomic reporter gene integration to analyze heterogeneity in <i>Photorhabdus luminescens</i> at the single-cell level. BioTechniques, 2015, 59, 74-81.	1.8	14
50	Insights into the DNA-binding mechanism of a LytTR-type transcription regulator. Bioscience Reports, 2016, 36, .	2.4	14
51	Heterogeneous regulation of bacterial natural product biosynthesis via a novel transcription factor. Heliyon, 2016, 2, e00197.	3.2	13
52	Characterization of the pleiotropic LysR-type transcription regulator LeuO of Escherichia coli. Nucleic Acids Research, 2019, 47, 7363-7379.	14.5	13
53	Larvicidal and Growth-Inhibitory Activity of Entomopathogenic Bacteria Culture Fluids Against<i>Aedes aegypti</i>(Diptera: Culicidae). Journal of Economic Entomology, 2017, 110, tow224.	1.8	12
54	Dynamics of an Interactive Network Composed of a Bacterial Two-Component System, a Transporter and K+ as Mediator. PLoS ONE, 2014, 9, e89671.	2.5	12

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55	High binding affinity of repressor IolR avoids costs of untimely induction of myo-inositol utilization by Salmonella Typhimurium. Scientific Reports, 2017, 7, 44362.	3.3	11
56	The small RNA RssR regulates myo-inositol degradation by Salmonella enterica. Scientific Reports, 2018, 8, 17739.	3.3	11
57	Transparent polycarbonate coated with CeO₂ nanozymes repel <i>Pseudomonas aeruginosa</i> PA14 biofilms. Nanoscale, 2021, 14, 86-98.	5.6	11
58	Quorum Sensing and LuxR Solos in Photorhabdus. Current Topics in Microbiology and Immunology, 2016, 402, 103-119.	1.1	10
59	Transcriptional regulation of the <i>N</i>_{Îµ}â€fructoselysine metabolism in <i>Escherichia coli</i> by global and substrateâ€specific cues. Molecular Microbiology, 2021, 115, 175-190.	2.5	10
60	TOM9.2 Is a Calmodulin-Binding Protein Critical for TOM Complex Assembly but Not for Mitochondrial Protein Import in Arabidopsis thaliana. Molecular Plant, 2017, 10, 575-589.	8.3	9
61	Anti-Trypanosoma activity of bioactive metabolites from Photorhabdus luminescens and Xenorhabdus nematophila. Experimental Parasitology, 2019, 204, 107724.	1.2	8
62	Two novel XRE-like transcriptional regulators control phenotypic heterogeneity in Photorhabdus luminescens cell populations. BMC Microbiology, 2021, 21, 63.	3.3	8
63	Insulation and wiring specificity of BceRâ€like response regulators and their target promoters in <i>Bacillus subtilis</i>. Molecular Microbiology, 2017, 104, 16-31.	2.5	7
64	Variants of the Bacillus subtilis LysR-Type Regulator GltC With Altered Activator and Repressor Function. Frontiers in Microbiology, 2019, 10, 2321.	3.5	7
65	High-throughput synthesis of CeO2 nanoparticles for transparent nanocomposites repelling Pseudomonas aeruginosa biofilms. Scientific Reports, 2022, 12, 3935.	3.3	7
66	Defect-controlled halogenating properties of lanthanide-doped ceria nanozymes. Nanoscale, 2022, 14, 4740-4752.	5.6	6
67	Identification of <i>Pseudomonas asiatica</i> subsp. <i>bavariensis</i> str. <scp>JM1</scp> as the first <i>N</i>_{<i>Îµ</i>}â€carboxy(m)ethyllysineâ€degrading soil bacterium. Environmental Microbiology, 2022, 24, 3229-3241.	3.8	4
68	The Insect Pathogen Photorhabdus luminescens Protects Plants from Phytopathogenic Fusarium graminearum via Chitin Degradation. Applied and Environmental Microbiology, 2022, 88, .	3.1	4
69	Identification of Gip as a novel phageâ€encoded gyrase inhibitor protein of <i>Corynebacterium glutamicum</i>. Molecular Microbiology, 2021, 116, 1268-1280.	2.5	3
70	T Cell Transfection: Coming in and Finding Out: Blending Receptorâ€Targeted Delivery and Efficient Endosomal Escape in a Novel Bioâ€Responsive siRNA Delivery System for Gene Knockdown in Pulmonary T Cells (Adv. Therap. 7/2019). Advanced Therapeutics, 2019, 2, 1970015.	3.2	2
71	High-throughput sequencing analysis reveals genomic similarity in phenotypic heterogeneous Photorhabdus luminescens cell populations. Annals of Microbiology, 2022, 72, .	2.6	2
72	RÃ¼cktitelbild: Promoter Activation in Î”<i>hfq</i> Mutants as an Efficient Tool for Specialized Metabolite Production Enabling Direct Bioactivity Testing (Angew. Chem. 52/2019). Angewandte Chemie, 2019, 131, 19288-19288.	2.0	0