

Ralf Heermann

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

2,475
citations

236612

25
h-index

223531

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. <i>Blood</i> , 2016, 128, 2435-2449.	0.6	219
2	Histidine kinases and response regulators in networks. <i>Current Opinion in Microbiology</i> , 2012, 15, 118-124.	2.3	204
3	Pyrones as bacterial signaling molecules. <i>Nature Chemical Biology</i> , 2013, 9, 573-578.	3.9	180
4	Dialkylresorcinols as bacterial signaling molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 572-577.	3.3	117
5	Purification, Reconstitution, and Characterization of the CpxRAP Envelope Stress System of <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2007, 282, 8583-8593.	1.6	101
6	Stimulation of the potassium sensor KdpD kinase activity by interaction with the phosphotransferase protein IIA ^{Ntr} in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2009, 72, 978-994.	1.2	98
7	Comparative analysis of the <i>Photobacterium luminescens</i> and the <i>Yersinia enterocolitica</i> genomes: uncovering candidate genes involved in insect pathogenicity. <i>BMC Genomics</i> , 2008, 9, 40.	1.2	81
8	A Sensory Complex Consisting of an ATP-binding Cassette Transporter and a Two-component Regulatory System Controls Bacitracin Resistance in <i>Bacillus subtilis</i> . <i>Journal of Biological Chemistry</i> , 2014, 289, 27899-27910.	1.6	73
9	The complexity of the "simple" two-component system KdpD/KdpE in <i>Escherichia coli</i> . <i>FEMS Microbiology Letters</i> , 2010, 304, 97-106.	0.7	71
10	The Universal Stress Protein UspC Scaffolds the KdpD/KdpE Signaling Cascade of <i>Escherichia coli</i> under Salt Stress. <i>Journal of Molecular Biology</i> , 2009, 386, 134-148.	2.0	69
11	Simple generation of site-directed point mutations in the <i>Escherichia coli</i> chromosome using RedA [®] /ET [®] Recombination. <i>Microbial Cell Factories</i> , 2008, 7, 14.	1.9	63
12	<i>Photobacterium luminescens</i> genes induced upon insect infection. <i>BMC Genomics</i> , 2008, 9, 229.	1.2	48
13	Single Cell Kinetics of Phenotypic Switching in the Arabinose Utilization System of <i>E. coli</i> . <i>PLoS ONE</i> , 2014, 9, e89532.	1.1	48
14	Languages and dialects: bacterial communication beyond homoserine lactones. <i>Trends in Microbiology</i> , 2015, 23, 521-523.	3.5	46
15	Structure-function analysis of the DNA-binding domain of a transmembrane transcriptional activator. <i>Scientific Reports</i> , 2017, 7, 1051.	1.6	46
16	The great potential of entomopathogenic bacteria <i>Xenorhabdus</i> and <i>Photorhabdus</i> for mosquito control: a review. <i>Parasites and Vectors</i> , 2020, 13, 376.	1.0	44
17	Oral toxicity of <i>Photobacterium luminescens</i> and <i>Xenorhabdus nematophila</i> (Enterobacteriaceae) against <i>Aedes aegypti</i> (Diptera: Culicidae). <i>Parasitology Research</i> , 2013, 112, 2891-2896.	0.6	43
18	Promoter Activation in \hat{P} Mutants as an Efficient Tool for Specialized Metabolite Production Enabling Direct Bioactivity Testing. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18957-18963.	7.2	40

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19	LuxR solos in <i>Photobacterium</i> species. <i>Frontiers in Cellular and Infection Microbiology</i> , 2014, 4, 166.	1.8	35
20	The N-terminal Input Domain of the Sensor Kinase KdpD of <i>Escherichia coli</i> Stabilizes the Interaction between the Cognate Response Regulator KdpE and the Corresponding DNA-binding Site. <i>Journal of Biological Chemistry</i> , 2003, 278, 51277-51284.	1.6	33
21	A Dual-Sensing Receptor Confers Robust Cellular Homeostasis. <i>Cell Reports</i> , 2016, 16, 213-221.	2.9	32
22	Specificity of Signal-Binding via Non-AHL LuxR-Type Receptors. <i>PLoS ONE</i> , 2015, 10, e0124093.	1.1	32
23	The Hydrophilic N-terminal Domain Complements the Membrane-anchored C-terminal Domain of the Sensor Kinase KdpD of <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2000, 275, 17080-17085.	1.6	31
24	Analysis of two-component signal transduction by mathematical modeling using the KdpD/KdpE system of <i>Escherichia coli</i> . <i>BioSystems</i> , 2004, 78, 23-37.	0.9	30
25	The turgor sensor KdpD of <i>Escherichia coli</i> is a homodimer. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1998, 1415, 114-124.	1.4	29
26	New Vocabulary for Bacterial Communication. <i>ChemBioChem</i> , 2020, 21, 759-768.	1.3	29
27	Quantification of Interaction Strengths between Chaperones and Tetratricopeptide Repeat Domain-containing Membrane Proteins. <i>Journal of Biological Chemistry</i> , 2013, 288, 30614-30625.	1.6	28
28	CipA and CipB as Scaffolds To Organize Proteins into Crystalline Inclusions. <i>ACS Synthetic Biology</i> , 2017, 6, 826-836.	1.9	28
29	The transmembrane domains of the sensor kinase KdpD of <i>Escherichia coli</i> are not essential for sensing K ⁺ limitation. <i>Molecular Microbiology</i> , 2003, 47, 839-848.	1.2	27
30	Non-canonical activation of histidine kinase KdpD by phosphotransferase protein PtsN through interaction with the transmitter domain. <i>Molecular Microbiology</i> , 2017, 106, 54-73.	1.2	26
31	Small <i>scp</i> RNA-binding protein RapZ mediates cell envelope precursor sensing and signaling in <i>Escherichia coli</i> . <i>EMBO Journal</i> , 2020, 39, e103848.	3.5	23
32	Genetic Characterization of the Galactitol Utilization Pathway of <i>Salmonella enterica</i> Serovar Typhimurium. <i>Journal of Bacteriology</i> , 2017, 199, .	1.0	22
33	Phenotypic and genomic comparison of <i>Photobacterium luminescens</i> subsp. <i>laumondii</i> TT01 and a widely used rifampicin-resistant <i>Photobacterium luminescens</i> laboratory strain. <i>BMC Genomics</i> , 2018, 19, 854.	1.2	22
34	Coming in and Finding Out: Blending Receptor-Targeted Delivery and Efficient Endosomal Escape in a Novel Bio-Responsive siRNA Delivery System for Gene Knockdown in Pulmonary T Cells. <i>Advanced Therapeutics</i> , 2019, 2, 1900047.	1.6	21
35	Nanocomposite antimicrobials prevent bacterial growth through the enzyme-like activity of Bi-doped cerium dioxide (Ce _{1-x} Bi _x O ₂). <i>Nanoscale</i> , 2020, 12, 21344-21358.	2.8	20
36	Structural features and mechanisms for sensing high osmolarity in microorganisms. <i>Current Opinion in Microbiology</i> , 2004, 7, 168-174.	2.3	19

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37	The Biocontrol Agent and Insect Pathogen <i>Photorhabdus luminescens</i> Interacts with Plant Roots. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	18
38	Regulation of Phenotypic Switching and Heterogeneity in <i>Photorhabdus luminescens</i> Cell Populations. <i>Journal of Molecular Biology</i> , 2019, 431, 4559-4568.	2.0	17
39	Effect of cysteine replacements on the properties of the turgor sensor KdpD of <i>Escherichia coli</i> . <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1998, 1372, 311-322.	1.4	16
40	Entomopathogenic bacteria <i>Photorhabdus luminescens</i> as drug source against <i>Leishmania amazonensis</i> . <i>Parasitology</i> , 2018, 145, 1065-1074.	0.7	16
41	Promoter Activation in $\hat{1}$ hfq Mutants as an Efficient Tool for Specialized Metabolite Production Enabling Direct Bioactivity Testing. <i>Angewandte Chemie</i> , 2019, 131, 19133-19139.	1.6	16
42	Phenotypic Heterogeneity of the Insect Pathogen <i>Photorhabdus luminescens</i> : Insights into the Fate of Secondary Cells. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	16
43	Interaction Analysis of a Two-Component System Using Nanodiscs. <i>PLoS ONE</i> , 2016, 11, e0149187.	1.1	15
44	HexA is a versatile regulator involved in the control of phenotypic heterogeneity of <i>Photorhabdus luminescens</i> . <i>PLoS ONE</i> , 2017, 12, e0176535.	1.1	15
45	Phosphorylation of the outer membrane mitochondrial protein OM64 influences protein import into mitochondria. <i>Mitochondrion</i> , 2019, 44, 93-102.	1.6	15
46	Deciphering the Rules Underlying Xenogeneic Silencing and Counter-Silencing of Lsr2-like Proteins Using CgpS of <i>Corynebacterium glutamicum</i> as a Model. <i>MBio</i> , 2020, 11, .	1.8	15
47	A chimeric <i>Anabaena</i> / <i>Escherichia coli</i> KdpD protein (<i>Anacoli</i> KdpD) functionally interacts with <i>E. coli</i> KdpE and activates kdp expression in <i>E. coli</i> . <i>Archives of Microbiology</i> , 2002, 178, 141-148.	1.0	14
48	Domain swapping reveals that the N-terminal domain of the sensor kinase KdpD in <i>Escherichia coli</i> is important for signaling. <i>BMC Microbiology</i> , 2009, 9, 133.	1.3	14
49	A novel tool for stable genomic reporter gene integration to analyze heterogeneity in <i>Photorhabdus luminescens</i> at the single-cell level. <i>BioTechniques</i> , 2015, 59, 74-81.	0.8	14
50	Insights into the DNA-binding mechanism of a LytTR-type transcription regulator. <i>Bioscience Reports</i> , 2016, 36, .	1.1	14
51	Heterogeneous regulation of bacterial natural product biosynthesis via a novel transcription factor. <i>Heliyon</i> , 2016, 2, e00197.	1.4	13
52	Characterization of the pleiotropic LysR-type transcription regulator LeuO of <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 2019, 47, 7363-7379.	6.5	13
53	Larvicidal and Growth-Inhibitory Activity of Entomopathogenic Bacteria Culture Fluids Against <i>Aedes aegypti</i> (Diptera: Culicidae). <i>Journal of Economic Entomology</i> , 2017, 110, tow224.	0.8	12
54	Dynamics of an Interactive Network Composed of a Bacterial Two-Component System, a Transporter and K ⁺ as Mediator. <i>PLoS ONE</i> , 2014, 9, e89671.	1.1	12

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55	High binding affinity of repressor lolR avoids costs of untimely induction of myo-inositol utilization by <i>Salmonella Typhimurium</i> . <i>Scientific Reports</i> , 2017, 7, 44362.	1.6	11
56	The small RNA RssR regulates myo-inositol degradation by <i>Salmonella enterica</i> . <i>Scientific Reports</i> , 2018, 8, 17739.	1.6	11
57	Transparent polycarbonate coated with CeO ₂ nanozymes repel <i>Pseudomonas aeruginosa</i> PA14 biofilms. <i>Nanoscale</i> , 2021, 14, 86-98.	2.8	11
58	Quorum Sensing and LuxR Solos in <i>Photobacterium</i> . <i>Current Topics in Microbiology and Immunology</i> , 2016, 402, 103-119.	0.7	10
59	Transcriptional regulation of the <i>N¹μ</i> fructoselysine metabolism in <i>Escherichia coli</i> by global and substrate-specific cues. <i>Molecular Microbiology</i> , 2021, 115, 175-190.	1.2	10
60	TOM9.2 Is a Calmodulin-Binding Protein Critical for TOM Complex Assembly but Not for Mitochondrial Protein Import in <i>Arabidopsis thaliana</i> . <i>Molecular Plant</i> , 2017, 10, 575-589.	3.9	9
61	Anti-Trypanosoma activity of bioactive metabolites from <i>Photobacterium luminescens</i> and <i>Xenorhabdus nematophila</i> . <i>Experimental Parasitology</i> , 2019, 204, 107724.	0.5	8
62	Two novel XRE-like transcriptional regulators control phenotypic heterogeneity in <i>Photobacterium luminescens</i> cell populations. <i>BMC Microbiology</i> , 2021, 21, 63.	1.3	8
63	Insulation and wiring specificity of BceR-like response regulators and their target promoters in <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 2017, 104, 16-31.	1.2	7
64	Variants of the <i>Bacillus subtilis</i> LysR-Type Regulator GltC With Altered Activator and Repressor Function. <i>Frontiers in Microbiology</i> , 2019, 10, 2321.	1.5	7
65	High-throughput synthesis of CeO ₂ nanoparticles for transparent nanocomposites repelling <i>Pseudomonas aeruginosa</i> biofilms. <i>Scientific Reports</i> , 2022, 12, 3935.	1.6	7
66	Defect-controlled halogenating properties of lanthanide-doped ceria nanozymes. <i>Nanoscale</i> , 2022, 14, 4740-4752.	2.8	6
67	Identification of <i>Pseudomonas asiatica</i> subsp. <i>bavariensis</i> str. <i>JM1</i> as the first <i>N¹μ</i> -carboxy(m)ethyllysine-degrading soil bacterium. <i>Environmental Microbiology</i> , 2022, 24, 3229-3241.	1.8	4
68	The Insect Pathogen <i>Photobacterium luminescens</i> Protects Plants from Phytopathogenic <i>Fusarium graminearum</i> via Chitin Degradation. <i>Applied and Environmental Microbiology</i> , 2022, 88, .	1.4	4
69	Identification of Gip as a novel phage-encoded gyrase inhibitor protein of <i>Corynebacterium glutamicum</i> . <i>Molecular Microbiology</i> , 2021, 116, 1268-1280.	1.2	3
70	T Cell Transfection: Coming in and Finding Out: Blending Receptor-Targeted Delivery and Efficient Endosomal Escape in a Novel Bio-Responsive siRNA Delivery System for Gene Knockdown in Pulmonary T Cells (Adv. Therap. 7/2019). <i>Advanced Therapeutics</i> , 2019, 2, 1970015.	1.6	2
71	High-throughput sequencing analysis reveals genomic similarity in phenotypic heterogeneous <i>Photobacterium luminescens</i> cell populations. <i>Annals of Microbiology</i> , 2022, 72, .	1.1	2
72	Titelbild: Promoter Activation in <i>hfq</i> Mutants as an Efficient Tool for Specialized Metabolite Production Enabling Direct Bioactivity Testing (<i>Angew. Chem.</i> 52/2019). <i>Angewandte Chemie</i> , 2019, 131, 19288-19288.	1.6	0