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	Defect-controlled halogenating properties of lanthanide-doped ceria nanozymes. Nanoscale, 2022, 14, 4740-4752.	5.6	6
2	High-throughput synthesis of CeO2 nanoparticles for transparent nanocomposites repelling Pseudomonas aeruginosa biofilms. Scientific Reports, 2022, 12, 3935.	3.3	7
3	High-throughput sequencing analysis reveals genomic similarity in phenotypic heterogeneous Photorhabdus luminescens cell populations. Annals of Microbiology, 2022, 72, .	2.6	2
4	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
5	The Insect Pathogen Photorhabdus luminescens Protects Plants from Phytopathogenic Fusarium graminearum via Chitin Degradation. Applied and Environmental Microbiology, 2022, 88, .	3.1	4
6	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
7	Two novel XRE-like transcriptional regulators control phenotypic heterogeneity in Photorhabdus luminescens cell populations. BMC Microbiology, 2021, 21, 63.	3.3	8
8	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
9	Transparent polycarbonate coated with CeO₂ nanozymes repel <i>Pseudomonas aeruginosa</i> PA14 biofilms. Nanoscale, 2021, 14, 86-98.	5.6	11
10	New Vocabulary for Bacterial Communication. ChemBioChem, 2020, 21, 759-768.	2.6	29
11	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
12	The great potential of entomopathogenic bacteria Xenorhabdus and Photorhabdus for mosquito control: a review. Parasites and Vectors, 2020, 13, 376.	2.5	44
13	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
14	The Biocontrol Agent and Insect Pathogen Photorhabdus luminescens Interacts with Plant Roots. Applied and Environmental Microbiology, 2020, 86, .	3.1	18
15	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
16	Anti-Trypanosoma activity of bioactive metabolites from Photorhabdus luminescens and Xenorhabdus nematophila. Experimental Parasitology, 2019, 204, 107724.	1.2	8
17	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
18	Variants of the Bacillus subtilis LysR-Type Regulator GltC With Altered Activator and Repressor Function. Frontiers in Microbiology, 2019, 10, 2321.	3.5	7

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19	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
20	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
21	Phenotypic Heterogeneity of the Insect Pathogen Photorhabdus luminescens: Insights into the Fate of Secondary Cells. Applied and Environmental Microbiology, 2019, 85, .	3.1	16
22	Characterization of the pleiotropic LysR-type transcription regulator LeuO of Escherichia coli. Nucleic Acids Research, 2019, 47, 7363-7379.	14.5	13
23	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
24	Regulation of Phenotypic Switching and Heterogeneity in Photorhabdus luminescens Cell Populations. Journal of Molecular Biology, 2019, 431, 4559-4568.	4.2	17
25	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
26	Phosphorylation of the outer membrane mitochondrial protein OM64 influences protein import into mitochondria. Mitochondrion, 2019, 44, 93-102.	3.4	15
27	Entomopathogenic bacteriaPhotorhabdus luminescensas drug source againstLeishmania amazonensis. Parasitology, 2018, 145, 1065-1074.	1.5	16
28	The small RNA RssR regulates myo-inositol degradation by Salmonella enterica. Scientific Reports, 2018, 8, 17739.	3.3	11
29	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
30	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
31	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
32	CipA and CipB as Scaffolds To Organize Proteins into Crystalline Inclusions. ACS Synthetic Biology, 2017, 6, 826-836.	3.8	28
33	Structure-function analysis of the DNA-binding domain of a transmembrane transcriptional activator. Scientific Reports, 2017, 7, 1051.	3.3	46
34	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
35	Genetic Characterization of the Galactitol Utilization Pathway of Salmonella enterica Serovar Typhimurium. Journal of Bacteriology, 2017, 199, .	2.2	22
36	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

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37	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
38	HexA is a versatile regulator involved in the control of phenotypic heterogeneity of Photorhabdus luminescens. PLoS ONE, 2017, 12, e0176535.	2.5	15
39	Interaction Analysis of a Two-Component System Using Nanodiscs. PLoS ONE, 2016, 11, e0149187.	2.5	15
40	Disulfide HMGB1 derived from platelets coordinates venous thrombosis in mice. Blood, 2016, 128, 2435-2449.	1.4	219
41	Heterogeneous regulation of bacterial natural product biosynthesis via a novel transcription factor. Heliyon, 2016, 2, e00197.	3.2	13
42	Insights into the DNA-binding mechanism of a LytTR-type transcription regulator. Bioscience Reports, 2016, 36, .	2.4	14
43	A Dual-Sensing Receptor Confers Robust Cellular Homeostasis. Cell Reports, 2016, 16, 213-221.	6.4	32
44	Quorum Sensing and LuxR Solos in Photorhabdus. Current Topics in Microbiology and Immunology, 2016, 402, 103-119.	1.1	10
45	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
46	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
47	Languages and dialects: bacterial communication beyond homoserine lactones. Trends in Microbiology, 2015, 23, 521-523.	7.7	46
48	Specificity of Signal-Binding via Non-AHL LuxR-Type Receptors. PLoS ONE, 2015, 10, e0124093.	2.5	32
49	LuxR solos in Photorhabdus species. Frontiers in Cellular and Infection Microbiology, 2014, 4, 166.	3.9	35
50	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
51	Single Cell Kinetics of Phenotypic Switching in the Arabinose Utilization System of E. coli. PLoS ONE, 2014, 9, e89532.	2.5	48
52	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
53	Pyrones as bacterial signaling molecules. Nature Chemical Biology, 2013, 9, 573-578.	8.0	180
54	Oral toxicity of Photorhabdus luminescens and Xenorhabdus nematophila (Enterobacteriaceae) against Aedes aegypti (Diptera: Culicidae). Parasitology Research, 2013, 112, 2891-2896.	1.6	43

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55	Quantification of Interaction Strengths between Chaperones and Tetratricopeptide Repeat Domain-containing Membrane Proteins. Journal of Biological Chemistry, 2013, 288, 30614-30625.	3.4	28
56	Histidine kinases and response regulators in networks. Current Opinion in Microbiology, 2012, 15, 118-124.	5.1	204
57	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
58	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
59	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
60	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
61	Photorhabdus luminescens genes induced upon insect infection. BMC Genomics, 2008, 9, 229.	2.8	48
62	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
63	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
64	Purification, Reconstitution, and Characterization of the CpxRAP Envelope Stress System of Escherichia coli. Journal of Biological Chemistry, 2007, 282, 8583-8593.	3.4	101
65	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
66	Structural features and mechanisms for sensing high osmolarity in microorganisms. Current Opinion in Microbiology, 2004, 7, 168-174.	5.1	19
67	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
68	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
69	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
70	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
71	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
72	The turgor sensor KdpD of Escherichia coli is a homodimer. Biochimica Et Biophysica Acta - Biomembranes, 1998, 1415, 114-124.	2.6	29