Katharina Riedel

List of Publications by Year in Descending Order

80 papers	1,794 citations	22 h-index	40 g-index
86 ext. papers	2,559 ext. citations	5.4 avg, IF	4.9 L-index

#	Paper	IF	Citations
80	Myxopyronin B inhibits growth of a Fidaxomicin-resistant Clostridioides difficile isolate and interferes with toxin synthesis.. *Gut Pathogens*, **2022**, 14, 4	5.4	2
79	Insights in the Degradation of Medium-Chain Length Dicarboxylic Acids in H16 reveal Differences in Oxidation between Dicarboxylic Acids and Fatty Acids. *Applied and Environmental Microbiology*, **2021**, AEM0187321	4.8	0
78	Influenza A H1N1 Induced Disturbance of the Respiratory and Fecal Microbiome of German Landrace Pigs - a Multi-Omics Characterization. *Microbiology Spectrum*, **2021**, 9, e0018221	8.9	1
77	The LichensMicrobiota, Still a Mystery?. *Frontiers in Microbiology*, **2021**, 12, 623839	5.7	26
76	Plasma-Treated Water Affects Vitality and Biofilm Structure. *Frontiers in Microbiology*, **2021**, 12, 652481	5.7	0
75	Whats a Biofilm?-How the Choice of the Biofilm Model Impacts the Protein Inventory of. *Frontiers in Microbiology*, **2021**, 12, 682111	5.7	3
74	Metagenome-Assembled Genome Sequences from Different Wastewater Treatment Stages in Germany. *Microbiology Resource Announcements*, **2021**, 10, e0050421	1.3	0
73	Moniliella spathulata, an oil-degrading yeast, which promotes growth of barley in oil-polluted soil. *Applied Microbiology and Biotechnology*, **2021**, 105, 401-415	5.7	1
72	Carbon Source-Dependent Reprogramming of Anaerobic Metabolism in Staphylococcus aureus. *Journal of Bacteriology*, **2021**, 203,	3.5	3
71	A Point Mutation in the Transcriptional Repressor PerR Results in a Constitutive Oxidative Stress Response in Clostridioides difficile 630 *MSphere*, **2021**, 6,	5	4
70	An Innovative Protocol for Metaproteomic Analyses of Microbial Pathogens in Cystic Fibrosis Sputum. *Frontiers in Cellular and Infection Microbiology*, **2021**, 11, 724569	5.9	1
69	Protein expression profiling of Staphylococcus aureus in response to the bacteriocin bovicin HC5. *Applied Microbiology and Biotechnology*, **2021**, 105, 7857-7869	5.7	
68	Characterization of Antimicrobial Effects of Plasma-Treated Water (PTW) Produced by Microwave-Induced Plasma (MidiPLexc) on Pseudomonas fluorescens Biofilms. *Applied Sciences (Switzerland)*, **2020**, 10, 3118	2.6	7
67	The Involvement of the McsB Arginine Kinase in Clp-Dependent Degradation of the MgsR Regulator in. *Frontiers in Microbiology*, **2020**, 11, 900	5.7	3
66	Impact of Different Trace Elements on the Growth and Proteome of Two Strains of , Class "Acidobacteriia". *Frontiers in Microbiology*, **2020**, 11, 1227	5.7	5
65	Complementation studies with human ClpP in Bacillus subtilis. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2020**, 1867, 118744	4.9	1
64	Investigation of the chemical composition of plasma-treated water by MidiPLexc and its antimicrobial effect onL. monocytogenesandPseudomonas fluorescensmonospecies suspension cultures. *Journal Physics D: Applied Physics*, **2020**, 53, 305204	3	6

63	Biofilm and Pathogenesis-Related Proteins in the Foodborne ITEM 17298 With Distinctive Phenotypes During Cold Storage. *Frontiers in Microbiology*, **2020**, 11, 991	5.7	13
62	Metabolic Rearrangements Causing Elevated Proline and Polyhydroxybutyrate Accumulation During the Osmotic Adaptation Response of. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 47	5.8	3
61	Responses of sp. WH15 to High Carbon Revealed by Integrated Omics Analyses. *Microorganisms*, **2020**, 8,	4.9	2
60	The HIPPO Transducer YAP and Its Targets CTGF and Cyr61 Drive a Paracrine Signalling in Cold Atmospheric Plasma-Mediated Wound Healing. *Oxidative Medicine and Cellular Longevity*, **2020**, 2020, 4910280	6.7	19
59	Non-invasive and label-free 3D-visualization shows in vivo oligomerization of the staphylococcal alkaline shock protein 23 (Asp23). *Scientific Reports*, **2020**, 10, 125	4.9	4
58	Metaproteomics of Litter-Associated Fungi **2020**, 369-383		
57	A Multi-Omics Protocol for Swine Feces to Elucidate Longitudinal Dynamics in Microbiome Structure and Function. *Microorganisms*, **2020**, 8,	4.9	3
56	Fibronectin rescues aberrant phenotype of endothelial cells lacking either CCM1, CCM2 or CCM3. *FASEB Journal*, **2020**, 34, 9018-9033	0.9	3
55	A complete and flexible workflow for metaproteomics data analysis based on MetaProteomeAnalyzer and Prophane. *Nature Protocols*, **2020**, 15, 3212-3239	18.8	14
54	Model of persistent foot-and-mouth disease virus infection in multilayered cells derived from bovine dorsal soft palate. *Transboundary and Emerging Diseases*, **2020**, 67, 133-148	4.2	5
53	An optimized metaproteomics protocol for a holistic taxonomic and functional characterization of microbial communities from marine particles. *Environmental Microbiology Reports*, **2020**, 12, 367-376	3.7	6
52	Proteogenomics Uncovers Critical Elements of Host Response in Bovine Soft Palate Epithelial Cells Following In Vitro Infection with Foot-And-Mouth Disease Virus. *Viruses*, **2019**, 11,	6.2	9
51	Effects of adult temperature on gene expression in a butterfly: identifying pathways associated with thermal acclimation. *BMC Evolutionary Biology*, **2019**, 19, 32	3	5
50	Comparative proteome analysis in an Escherichia coli CyDisCo strain identifies stress responses related to protein production, oxidative stress and accumulation of misfolded protein. *Microbial Cell Factories*, **2019**, 18, 19	6.4	6
49	Response of Microbial Communities and Their Metabolic Functions to Drying?Rewetting Stress in a Temperate Forest Soil. *Microorganisms*, **2019**, 7,	4.9	18
48	Detailed Soluble Proteome Analyses of a Dairy-Isolated : A Possible Approach to Assess Food Safety and Potential Probiotic Value. *Frontiers in Nutrition*, **2019**, 6, 71	6.2	8
47	Virulence Factors Produced by Biofilms Have a Moonlighting Function Contributing to Biofilm Integrity. *Molecular and Cellular Proteomics*, **2019**, 18, 1036-1053	7.6	42
46	Differential View on the Bile Acid Stress Response of. *Frontiers in Microbiology*, **2019**, 10, 258	5.7	10

45	Proteomic analysis of the food spoiler Pseudomonas fluorescens ITEM 17298 reveals the antibiofilm activity of the pepsin-digested bovine lactoferrin. *Food Microbiology*, **2019**, 82, 177-193	6	21
44	Enhancing Recombinant Protein Yields in the Periplasm by Combining Signal Peptide and Production Rate Screening. *Frontiers in Microbiology*, **2019**, 10, 1511	5.7	20
43	Antimicrobial effects of microwave-induced plasma torch (MiniMIP) treatment on Candida albicans biofilms. *Microbial Biotechnology*, **2019**, 12, 1034-1048	6.3	14
42	Can Adapt Its Protein Translocation Machinery for Enhanced Periplasmic Recombinant Protein Production. *Frontiers in Bioengineering and Biotechnology*, **2019**, 7, 465	5.8	3
41	A sulfur-containing volatile emitted by potato-associated bacteria confers protection against late blight through direct anti-oomycete activity. *Scientific Reports*, **2019**, 9, 18778	4.9	16
40	A Core Genome Multilocus Sequence Typing Scheme for Enterococcus faecalis. *Journal of Clinical Microbiology*, **2019**, 57,	9.7	22
39	Far-reaching cellular consequences of tat deletion in Escherichia coli revealed by comprehensive proteome analyses. *Microbiological Research*, **2019**, 218, 97-107	5.3	5
38	Comprehensive Redox Profiling of the Thiol Proteome of. *Molecular and Cellular Proteomics*, **2018**, 17, 1035-1046	7.6	13
37	The hidden lipoproteome of Staphylococcus aureus. *International Journal of Medical Microbiology*, **2018**, 308, 569-581	3.7	7
36	Holistic Assessment of Rumen Microbiome Dynamics through Quantitative Metatranscriptomics Reveals Multifunctional Redundancy during Key Steps of Anaerobic Feed Degradation. *MSystems*, **2018**, 3,	7.6	37
35	Identification of AHL- and BDSF-Controlled Proteins in Burkholderia cenocepacia by Proteomics. *Methods in Molecular Biology*, **2018**, 1673, 193-202	1.4	1
34	Polymer drug release system for biofilm inhibition in medical application. *Current Directions in Biomedical Engineering*, **2018**, 4, 213-216	0.5	1
33	Quorum Sensing and Spoilage Potential of Psychrotrophic Enterobacteriaceae Isolated from Milk. *BioMed Research International*, **2018**, 2018, 2723157	3	10
32	Proteomic Signatures of Stressed with Metronidazole, Vancomycin, or Fidaxomicin. *Cells*, **2018**, 7,	7.9	10
31	Iron Regulation in. *Frontiers in Microbiology*, **2018**, 9, 3183	5.7	23
30	Sample Preparation for Metaproteome Analyses of Soil and Leaf Litter. *Methods in Molecular Biology*, **2018**, 1841, 303-318	1.4	7
29	Fungal volatile compounds induce production of the secondary metabolite Sodorifen in Serratia plymuthica PRI-2C. *Scientific Reports*, **2017**, 7, 862	4.9	65
28	Microbial functionality as affected by experimental warming of a temperate mountain forest soil—A metaproteomics survey. *Applied Soil Ecology*, **2017**, 117-118, 196-202	5	39

27	Symbiotic Interplay of Fungi, Algae, and Bacteria within the Lung Lichen Lobaria pulmonaria L. Hoffm. as Assessed by State-of-the-Art Metaproteomics. *Journal of Proteome Research*, **2017**, 16, 2160-2173	5.6	29
26	Biotransformation and reduction of estrogenicity of bisphenol A by the biphenyl-degrading Cupriavidus basilensis. *Applied Microbiology and Biotechnology*, **2017**, 101, 3743-3758	5.7	9
25	Impact of Dietary Resistant Starch on the Human Gut Microbiome, Metaproteome, and Metabolome. *MBio*, **2017**, 8,	7.8	145
24	Deciphering functional diversification within the lichen microbiota by meta-omics. *Microbiome*, **2017**, 5, 82	16.6	54
23	Bioinformatic analysis of fold-type III PLP-dependent enzymes discovers multimeric racemases. *Applied Microbiology and Biotechnology*, **2017**, 101, 1499-1507	5.7	1
22	Soil and leaf litter metaproteomics-a brief guideline from sampling to understanding. *FEMS Microbiology Ecology*, **2016**, 92,	4.3	28
21	Costs of life - Dynamics of the protein inventory of Staphylococcus aureus during anaerobiosis. *Scientific Reports*, **2016**, 6, 28172	4.9	22
20	Updating the proteome of the uncultivable hemotrophic Mycoplasma suis in experimentally infected pigs. *Proteomics*, **2016**, 16, 609-13	4.8	1
19	Decoding the complete arsenal for cellulose and hemicellulose deconstruction in the highly efficient cellulose decomposer Paenibacillus O199. *Biotechnology for Biofuels*, **2016**, 9, 104	7.8	42
18	Molecular mechanisms underlying the close association between soil Burkholderia and fungi. *ISME Journal*, **2016**, 10, 253-64	11.9	76
17	Flechten-Mikrobiom: eine alte Symbiose neu entdeckt. *BioSpektrum*, **2016**, 22, 12-15	0.1	1
16	Life Stage-specific Proteomes of Legionella pneumophila Reveal a Highly Differential Abundance of Virulence-associated Dot/Icm effectors. *Molecular and Cellular Proteomics*, **2016**, 15, 177-200	7.6	18
15	Proteome and carbon flux analysis of Pseudomonas aeruginosa clinical isolates from different infection sites. *Proteomics*, **2016**, 16, 1381-5	4.8	12
14	Cellulose and hemicellulose decomposition by forest soil bacteria proceeds by the action of structurally variable enzymatic systems. *Scientific Reports*, **2016**, 6, 25279	4.9	216
13	The protein inventory of Clostridium difficile grown in complex and minimal medium. *Proteomics - Clinical Applications*, **2016**, 10, 1068-1072	3.1	12
12	Antibacterial metabolites and bacteriolytic enzymes produced by Bacillus pumilus during bacteriolysis of Arthrobacter citreus. *Marine Biotechnology*, **2015**, 17, 290-304	3.4	14
11	Time-Resolved Analysis of Cytosolic and Surface-Associated Proteins of Staphylococcus aureus HG001 under Planktonic and Biofilm Conditions. *Journal of Proteome Research*, **2015**, 14, 3804-22	5.6	10
10	A metaproteomics approach to elucidate host and pathogen protein expression during catheter-associated urinary tract infections (CAUTIs). *Molecular and Cellular Proteomics*, **2015**, 14, 989-1008	7.6	44

9	Exploring functional contexts of symbiotic sustain within lichen-associated bacteria by comparative omics. *ISME Journal*, **2015**, 9, 412-24	11.9	159
8	Milk-deteriorating exoenzymes from Pseudomonas fluorescens 041 isolated from refrigerated raw milk. *Brazilian Journal of Microbiology*, **2015**, 46, 207-17	2.2	22
7	Reducing the genetic code induces massive rearrangement of the proteome. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 17206-11	11.5	9
6	Highly precise quantification of protein molecules per cell during stress and starvation responses in Bacillus subtilis. *Molecular and Cellular Proteomics*, **2014**, 13, 2260-76	7.6	33
5	Deletion of membrane-associated Asp23 leads to upregulation of cell wall stress genes in Staphylococcus aureus. *Molecular Microbiology*, **2014**, 93, 1259-68	4.1	38
4	Metaproteomics to unravel major microbial players in leaf litter and soil environments: challenges and perspectives. *Proteomics*, **2013**, 13, 2895-909	4.8	46
3	Data visualization in environmental proteomics. *Proteomics*, **2013**, 13, 2805-21	4.8	17
2	Aureolib - a proteome signature library: towards an understanding of staphylococcus aureus pathophysiology. *PLoS ONE*, **2013**, 8, e70669	3.7	26
1	Identification of proteins associated with the Pseudomonas aeruginosa biofilm extracellular matrix. *Journal of Proteome Research*, **2012**, 11, 4906-15	5.6	150