

Ansgar Poetsch

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

90
papers

2,818
citations

29
h-index

51
g-index

97
ext. papers

3,291
ext. citations

5.8
avg, IF

4.89
L-index

#	Paper	IF	Citations
90	Structural biology. Proton-powered turbine of a plant motor. <i>Nature</i> , 2000 , 405, 418-9	50.4	439
89	Toward the complete membrane proteome: high coverage of integral membrane proteins through transmembrane peptide detection. <i>Molecular and Cellular Proteomics</i> , 2006 , 5, 444-53	7.6	152
88	The cGMP-gated channel and related glutamic acid-rich proteins interact with peripherin-2 at the rim region of rod photoreceptor disc membranes. <i>Journal of Biological Chemistry</i> , 2001 , 276, 48009-16	5.4	152
87	Targeted Ablation of Periostin-Expressing Activated Fibroblasts Prevents Adverse Cardiac Remodeling in Mice. <i>Circulation Research</i> , 2016 , 118, 1906-17	15.7	133
86	Mapping the membrane proteome of <i>Corynebacterium glutamicum</i> . <i>Proteomics</i> , 2005 , 5, 1317-30	4.8	85
85	Protein cleavage strategies for an improved analysis of the membrane proteome. <i>Proteome Science</i> , 2006 , 4, 2	2.6	81
84	Bacterial membrane proteomics. <i>Proteomics</i> , 2008 , 8, 4100-22	4.8	79
83	Functional genomics of pH homeostasis in <i>Corynebacterium glutamicum</i> revealed novel links between pH response, oxidative stress, iron homeostasis and methionine synthesis. <i>BMC Genomics</i> , 2009 , 10, 621	4.5	69
82	The CatSper channel controls chemosensation in sea urchin sperm. <i>EMBO Journal</i> , 2015 , 34, 379-92	13	65
81	Elastase digests: new ammunition for shotgun membrane proteomics. <i>Molecular and Cellular Proteomics</i> , 2009 , 8, 1029-43	7.6	62
80	The Ca ²⁺ -activated K ⁺ current of human sperm is mediated by Slo3. <i>ELife</i> , 2014 , 3, e01438	8.9	62
79	Multi-omics Reveals the Lifestyle of the Acidophilic, Mineral-Oxidizing Model Species <i>Leptospirillum ferriphilum</i> . <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	60
78	Genome-wide investigation of aromatic acid transporters in <i>Corynebacterium glutamicum</i> . <i>Microbiology (United Kingdom)</i> , 2007 , 153, 857-865	2.9	59
77	Characterization of citrate utilization in <i>Corynebacterium glutamicum</i> by transcriptome and proteome analysis. <i>FEMS Microbiology Letters</i> , 2007 , 273, 109-19	2.9	58
76	Biofilm formation, communication and interactions of leaching bacteria during colonization of pyrite and sulfur surfaces. <i>Research in Microbiology</i> , 2014 , 165, 773-81	4	51
75	Unraveling the <i>Acidithiobacillus caldus</i> complete genome and its central metabolisms for carbon assimilation. <i>Journal of Genetics and Genomics</i> , 2011 , 38, 243-52	4	49
74	Shotgun proteomics study of early biofilm formation process of <i>Acidithiobacillus ferrooxidans</i> ATCC 23270 on pyrite. <i>Proteomics</i> , 2013 , 13, 1133-44	4.8	48

73	From protons to OXPHOS supercomplexes and Alzheimer's disease: structure-dynamics-function relationships of energy-transducing membranes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009 , 1787, 657-71	4.6	43
72	Comparative proteomes of <i>Corynebacterium glutamicum</i> grown on aromatic compounds revealed novel proteins involved in aromatic degradation and a clear link between aromatic catabolism and gluconeogenesis via fructose-1,6-bisphosphatase. <i>Proteomics</i> , 2007 , 7, 3775-87	4.8	43
71	Dye removal, catalytic activity and 2D crystallization of chloroplast H(+)-ATP synthase purified by blue native electrophoresis. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2000 , 1466, 339-49	3.8	41
70	Transcriptome 3' end organization by PCF11 links alternative polyadenylation to formation and neuronal differentiation of neuroblastoma. <i>Nature Communications</i> , 2018 , 9, 5331	17.4	38
69	Physiological adaptation of <i>Corynebacterium glutamicum</i> to benzoate as alternative carbon source - a membrane proteome-centric view. <i>Proteomics</i> , 2009 , 9, 3635-51	4.8	35
68	Knockdown of carbonate anhydrase elevates <i>Nannochloropsis</i> productivity at high CO level. <i>Metabolic Engineering</i> , 2019 , 54, 96-108	9.7	34
67	Reactive oxygen species target specific tryptophan site in the mitochondrial ATP synthase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012 , 1817, 381-7	4.6	34
66	A K(+)-selective CNG channel orchestrates Ca(2+) signalling in zebrafish sperm. <i>ELife</i> , 2015 , 4,	8.9	33
65	Adaptation of <i>Corynebacterium glutamicum</i> to salt-stress conditions. <i>Proteomics</i> , 2010 , 10, 445-57	4.8	31
64	High density and ligand affinity confer ultrasensitive signal detection by a guanylyl cyclase chemoreceptor. <i>Journal of Cell Biology</i> , 2014 , 206, 541-57	7.3	29
63	Impaired intercellular adhesion and immature adherens junctions in merlin-deficient human primary schwannoma cells. <i>Glia</i> , 2008 , 56, 506-15	9	29
62	Proteomics Reveal Enhanced Oxidative Stress Responses and Metabolic Adaptation in Biofilm Cells on Pyrite. <i>Frontiers in Microbiology</i> , 2019 , 10, 592	5.7	28
61	On the Enigma of Glutathione-Dependent Styrene Degradation in <i>Gordonia rubripertincta</i> CWB2. <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	27
60	Accumulation of glucosylceramide in the absence of the beta-glucosidase GBA2 alters cytoskeletal dynamics. <i>PLoS Genetics</i> , 2015 , 11, e1005063	6	26
59	Weak Iron Oxidation by Maintains a Favorable Redox Potential for Chalcopyrite Bioleaching. <i>Frontiers in Microbiology</i> , 2018 , 9, 3059	5.7	25
58	The Archaeal Proteome Project advances knowledge about archaeal cell biology through comprehensive proteomics. <i>Nature Communications</i> , 2020 , 11, 3145	17.4	24
57	Transcriptomic and proteomic responses to very low CO suggest multiple carbon concentrating mechanisms in. <i>Biotechnology for Biofuels</i> , 2019 , 12, 168	7.8	23
56	A LewisX glycoprotein screen identifies the low density lipoprotein receptor-related protein 1 (LRP1) as a modulator of oligodendrogenesis in mice. <i>Journal of Biological Chemistry</i> , 2013 , 288, 16538-16545	5.4	22

55	Global proteome survey of protocatechuate- and glucose-grown <i>Corynebacterium glutamicum</i> reveals multiple physiological differences. <i>Journal of Proteomics</i> , 2012 , 75, 2649-59	3.9	21
54	Resolution of carbon metabolism and sulfur-oxidation pathways of <i>Metallosphaera cuprina</i> Ar-4 via comparative proteomics. <i>Journal of Proteomics</i> , 2014 , 109, 276-89	3.9	20
53	Proteome turnover in bacteria: current status for <i>Corynebacterium glutamicum</i> and related bacteria. <i>Microbial Biotechnology</i> , 2013 , 6, 708-19	6.3	18
52	A guide through the computational analysis of isotope-labeled mass spectrometry-based quantitative proteomics data: an application study. <i>Proteome Science</i> , 2011 , 9, 30	2.6	18
51	Response of the cytoplasmic and membrane proteome of <i>Corynebacterium glutamicum</i> ATCC 13032 to pH changes. <i>BMC Microbiology</i> , 2008 , 8, 225	4.5	18
50	A proteomic study of <i>Corynebacterium glutamicum</i> AAA+ protease FtsH. <i>BMC Microbiology</i> , 2007 , 7, 6	4.5	18
49	Evaluation of two proteomics technologies used to screen the membrane proteomes of wild-type <i>Corynebacterium glutamicum</i> and an L-lysine-producing strain. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 389, 1055-64	4.4	18
48	Reconstruction of the birth of a male sex chromosome present in Atlantic herring. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 24359-24368	11.5	18
47	Protein turnover quantification in a multilabeling approach: from data calculation to evaluation. <i>Molecular and Cellular Proteomics</i> , 2012 , 11, 512-26	7.6	17
46	Global role of the membrane protease LonB in Archaea: Potential protease targets revealed by quantitative proteome analysis of a lonB mutant in <i>Haloferax volcanii</i> . <i>Journal of Proteomics</i> , 2015 , 121, 1-14	3.9	16
45	LonB Protease Is a Novel Regulator of Carotenogenesis Controlling Degradation of Phytoene Synthase in <i>Haloferax volcanii</i> . <i>Journal of Proteome Research</i> , 2018 , 17, 1158-1171	5.6	15
44	The two-phase partitioning system--a powerful technique to purify integral membrane proteins of <i>Corynebacterium glutamicum</i> for quantitative shotgun analysis. <i>Proteomics</i> , 2009 , 9, 2263-72	4.8	15
43	Detergent effect on anion exchange perfusion chromatography and gel filtration of intact chloroplast H(+)-ATP synthase. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 265, 520-4	3.4	15
42	Improved identification of membrane proteins by MALDI-TOF MS/MS using vacuum sublimated matrix spots on an ultraphobic chip surface. <i>Journal of Biomolecular Techniques</i> , 2008 , 19, 129-38	1.1	15
41	Proteomic and molecular investigations revealed that <i>Acidithiobacillus caldus</i> adopts multiple strategies for adaptation to NaCl stress. <i>Science Bulletin</i> , 2014 , 59, 301-309		14
40	Proteomics of corynebacteria: From biotechnology workhorses to pathogens. <i>Proteomics</i> , 2011 , 11, 3244-55	4.55	14
39	Characterisation of subunit III and its oligomer from spinach chloroplast ATP synthase. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2003 , 1618, 59-66	3.8	14
38	Dye-ligand chromatographic purification of intact multisubunit membrane protein complexes: application to the chloroplast H ⁺ -F ₀ F ₁ -ATP synthase. <i>Biochemical Journal</i> , 2000 , 346, 41-44	3.8	14

37	The NanDeSyn database for Nannochloropsis systems and synthetic biology. <i>Plant Journal</i> , 2020 , 104, 1736-1745	6.9	12
36	Haloferax volcanii Proteome Response to Deletion of a Rhomboid Protease Gene. <i>Journal of Proteome Research</i> , 2018 , 17, 961-977	5.6	12
35	Physiological adaptation of the Rhodococcus jostii RHA1 membrane proteome to steroids as growth substrates. <i>Journal of Proteome Research</i> , 2013 , 12, 1188-98	5.6	12
34	Quantitative proteomic overview on the Corynebacterium glutamicum l-lysine producing strain DM1730. <i>Journal of Proteomics</i> , 2010 , 73, 2336-53	3.9	12
33	Absolute proteomic quantification reveals design principles of sperm flagellar chemosensation. <i>EMBO Journal</i> , 2020 , 39, e102723	13	11
32	Proteomic study uncovers molecular principles of single-cell-level phenotypic heterogeneity in lipid storage of. <i>Biotechnology for Biofuels</i> , 2019 , 12, 21	7.8	10
31	Current approaches and challenges in targeted absolute quantification of membrane proteins. <i>Proteomics</i> , 2015 , 15, 915-29	4.8	10
30	Integration of proteome and transcriptome refines key molecular processes underlying oil production in. <i>Biotechnology for Biofuels</i> , 2020 , 13, 109	7.8	10
29	Remarkable stability of the proton translocating F1FO-ATP synthase from the thermophilic cyanobacterium Thermosynechococcus elongatus BP-1. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008 , 1778, 1131-40	3.8	10
28	Interactions of rotor subunits in the chloroplast ATP synthase modulated by nucleotides and by Mg ²⁺ . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2007 , 1774, 566-74	4	10
27	Secretomic analyses of reveal its enzymatic basis for lignocellulose degradation. <i>Biotechnology for Biofuels</i> , 2019 , 12, 183	7.8	9
26	Biophysics and bioinformatics reveal structural differences of the two peripheral stalk subunits in chloroplast ATP synthase. <i>Journal of Biochemistry</i> , 2007 , 141, 411-20	3.1	9
25	Global Protein Oxidation Profiling Suggests Efficient Mitochondrial Proteome Homeostasis During Aging. <i>Molecular and Cellular Proteomics</i> , 2016 , 15, 1692-709	7.6	8
24	Protamine-2 Deficiency Initiates a Reactive Oxygen Species (ROS)-Mediated Destruction Cascade during Epididymal Sperm Maturation in Mice. <i>Cells</i> , 2020 , 9,	7.9	8
23	Transcriptomic and proteomic choreography in response to light quality variation reveals key adaptation mechanisms in marine Nannochloropsis oceanica. <i>Science of the Total Environment</i> , 2020 , 720, 137667	10.2	8
22	Proteomics of FACS-sorted heterogeneous Corynebacterium glutamicum populations. <i>Journal of Proteomics</i> , 2017 , 160, 1-7	3.9	6
21	Reverse engineering directed gene regulatory networks from transcriptomics and proteomics data of biomining bacterial communities with approximate Bayesian computation and steady-state signalling simulations. <i>BMC Bioinformatics</i> , 2020 , 21, 23	3.6	6
20	The Dynamics of Plasma Membrane, Metabolism and Respiration (PM-M-R) in CBS 123824 in Response to Different Nutrient Limitations-A Multi-level Approach to Study Organic Acid Excretion in Filamentous Fungi. <i>Frontiers in Microbiology</i> , 2017 , 8, 2475	5.7	6

19	Systems biology of acidophile biofilms for efficient metal extraction. <i>Scientific Data</i> , 2020 , 7, 215	8.2	6
18	Proteomics of Brucella. <i>Proteomes</i> , 2020 , 8,	4.6	5
17	Proteomic analysis of mitochondria from senescent <i>Podospira anserina</i> casts new light on ROS dependent aging mechanisms. <i>Experimental Gerontology</i> , 2014 , 56, 13-25	4.5	5
16	Production of tetraacetyl phytosphingosine (TAPS) in <i>Wickerhamomyces ciferrii</i> is catalyzed by acetyltransferases Sli1p and Atf2p. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 8537-46	5.7	5
15	A Proteomic Study of Subsp. Culture Supernatants. <i>Proteomes</i> , 2015 , 3, 411-423	4.6	5
14	Proteomic Study of the Exponential-Stationary Growth Phase Transition in the Haloarchaea <i>Natrialba magadii</i> and <i>Haloferax volcanii</i> . <i>Proteomics</i> , 2018 , 18, e1800116	4.8	4
13	Dye-ligand chromatographic purification of intact multisubunit membrane protein complexes: application to the chloroplast H ⁺ -FoF1-ATP synthase. <i>Biochemical Journal</i> , 2000 , 346, 41	3.8	3
12	Enrichment and identification of (9)-Tetrahydrocannabinolic acid synthase from <i>Pichia pastoris</i> culture supernatants. <i>Data in Brief</i> , 2015 , 4, 641-9	1.2	2
11	Combined application of targeted and untargeted proteomics identifies distinct metabolic alterations in the tetraacetylphytosphingosine (TAPS) producing yeast <i>Wickerhamomyces ciferrii</i> . <i>Journal of Proteomics</i> , 2013 , 82, 274-87	3.9	2
10	High density and ligand affinity confer ultrasensitive signal detection by a guanylyl cyclase chemoreceptor. <i>Journal of Cell Biology</i> , 2014 , 207, 675-675	7.3	2
9	The LonB protease modulates the degradation of CetZ1 involved in rod-shape determination in <i>Haloferax volcanii</i> . <i>Journal of Proteomics</i> , 2020 , 211, 103546	3.9	2
8	Comparative Quantitative Proteomics Reveals the Desiccation Stress Responses of the Intertidal Seaweed <i>NEOPORPHYRA haitanensis</i> . <i>Journal of Phycology</i> , 2020 , 56, 1664-1675	3	2
7	Systems Biology of Acidophile Biofilms for Efficient Metal Extraction. <i>Advanced Materials Research</i> , 2015 , 1130, 312-315	0.5	1
6	Data in support of global role of the membrane protease LonB in Archaea: Potential protease targets revealed by quantitative proteome analysis of a lonB mutant in <i>Haloferax volcanii</i> . <i>Data in Brief</i> , 2015 , 4, 50-3	1.2	
5	New Insights into the Biofilm Lifestyle and Metabolism of <i>Acidithiobacillus</i> Species from Analysis of High Throughput Proteomic Data. <i>Advanced Materials Research</i> , 2013 , 825, 111-114	0.5	
4	Bioleaching of Pyrite by Iron-Oxidizing Acidophiles under the Influence of Reactive Oxygen Species. <i>Solid State Phenomena</i> , 2017 , 262, 372-375	0.4	
3	Species-Dependent Proteomics343-378		
2	High density and ligand affinity confer ultrasensitive signal detection by a guanylyl cyclase chemoreceptor. <i>Journal of General Physiology</i> , 2014 , 144, 1443OIA35	3.4	

- 1 Functional Genomics Uncovers Pleiotropic Role of Rhomboids in .. *Frontiers in Microbiology*, **2022**, 13, 771968 5.7