Sjef Boeren

List of Publications by Year
in descending order

89	4,166	117453	128067
papers	citations	34 h-index	60 g-index

94	94	94	6340
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pili-like proteins of Akkermansia muciniphila modulate host immune responses and gut barrier function. PLoS ONE, 2017, 12, e0173004.	1.1	340
2	The Leucine-Rich Repeat Receptor Kinase BIR2 Is a Negative Regulator of BAK1 in Plant Immunity. Current Biology, 2014, 24, 134-143.	1.8	219
3	The Host Defense Proteome of Human and Bovine Milk. PLoS ONE, 2011, 6, e19433.	1.1	210
4	Production of butyrate from lysine and the Amadori product fructoselysine by a human gut commensal. Nature Communications, 2015, 6, 10062.	5.8	199
5	Genome-Scale Model and Omics Analysis of Metabolic Capacities of Akkermansia muciniphila Reveal a Preferential Mucin-Degrading Lifestyle. Applied and Environmental Microbiology, 2017, 83, .	1.4	170
6	POLAR-guided signalling complex assembly and localization drive asymmetric cell division. Nature, 2018, 563, 574-578.	13.7	167
7	Synergistic Action of a Metalloprotease and a Serine Protease from Fusarium oxysporum f. sp. lycopersici Cleaves Chitin-Binding Tomato Chitinases, Reduces Their Antifungal Activity, and Enhances Fungal Virulence. Molecular Plant-Microbe Interactions, 2015, 28, 996-1008.	1.4	152
8	The reductive glycine pathway allows autotrophic growth of Desulfovibrio desulfuricans. Nature Communications, 2020, 11, 5090.	5.8	152
9	Myofibrillar protein oxidation affects filament charges, aggregation and water-holding. Meat Science, 2018, 135, 102-108.	2.7	120
10	The <scp>AVR</scp>2â€“<scp>SIX</scp>5 gene pair is required to activate Iâ€2â€mediated immunity in tomato. New Phytologist, 2015, 208, 507-518.	3.5	113
11	Akkermansia muciniphila uses human milk oligosaccharides to thrive in the early life conditions in vitro. Scientific Reports, 2020, 10, 14330.	1.6	96
12	Proteomics-based identification of low-abundance signaling and regulatory protein complexes in native plant tissues. Nature Protocols, 2012, 7, 2144-2158.	5.5	90
13	Bovine Milk Proteome in the First 9 Days: Protein Interactions in Maturation of the Immune and Digestive System of the Newborn. PLoS ONE, 2015, 10, e0116710.	1.1	79
14	Characterization of Novel Components of the Baculovirus Per Os Infectivity Factor Complex. Journal of Virology, 2012, 86, 4981-4988.	1.5	78
15	Conversion of dietary inositol into propionate and acetate by commensal Anaerostipes associates with host health. Nature Communications, 2021, 12, 4798.	5.8	76
16	Disulfide Bond Structure of the AVR9 Elicitor of the Fungal Tomato PathogenCladosporium fulvum:Â Evidence for a Cystine Knotâ€. Biochemistry, 2001, 40, 3458-3466.	1.2	75
17	Protein identification and in vitro digestion of fractions from Tenebrio molitor. European Food Research and Technology, 2016, 242, 1285-1297.	1.6	75
18	Impact of nanoparticle surface functionalization on the protein corona and cellular adhesion, uptake and transport. Journal of Nanobiotechnology, 2018, 16, 70.	4.2	70

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19	The protein and lipid composition of the membrane of milk fat globules depends on their size. Journal of Dairy Science, 2016, 99, 4726-4738.	1.4	65
20	Xylem Sap Proteomics Reveals Distinct Differences Between R Gene- and Endophyte-Mediated Resistance Against Fusarium Wilt Disease in Tomato. Frontiers in Microbiology, 2018, 9, 2977.	1.5	63
21	In Vivo Identification of Plant Protein Complexes Using IP-MS/MS. Methods in Molecular Biology, 2017, 1497, 147-158.	0.4	62
22	Subgenomic flavivirus RNA binds the mosquito DEAD/H-box helicase ME31B and determines Zika virus transmission by Aedes aegypti. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19136-19144.	3.3	60
23	Proteomic study on the stability of proteins in bovine, camel, and caprine milk sera after processing. Food Research International, 2016, 82, 104-111.	2.9	59
24	Insight into the sulfur metabolism of Desulfurella amilsii by differential proteomics. Environmental Microbiology, 2019, 21, 209-225.	1.8	57
25	Effect of Processing Intensity on Immunologically Active Bovine Milk Serum Proteins. Nutrients, 2017, 9, 963.	1.7	56
26	Comparative proteome analysis of propionate degradation by Syntrophobacter fumaroxidans in pure culture and in coculture with methanogens. Environmental Microbiology, 2018, 20, 1842-1856.	1.8	50
27	Proteomics Analysis of the Zebrafish Skeletal Extracellular Matrix. PLoS ONE, 2014, 9, e90568.	1.1	50
28	Proteome constraints reveal targets for improving microbial fitness in nutrientâ€rich environments. Molecular Systems Biology, 2021, 17, e10093.	3.2	46
29	Human milk peptides differentiate between the preterm and term infant and across varying lactational stages. Food and Function, 2017, 8, 3769-3782.	2.1	45
30	Effect of heat treatment on bacteriostatic activity and protein profile of bovine whey proteins. Food Research International, 2020, 127, 108688.	2.9	44
31	Genomic, Proteomic, and Biochemical Analysis of the Organohalide Respiratory Pathway in Desulfitobacterium dehalogenans. Journal of Bacteriology, 2015, 197, 893-904.	1.0	43
32	An Inducible Operon Is Involved in Inulin Utilization in Lactobacillus plantarum Strains, as Revealed by Comparative Proteogenomics and Metabolic Profiling. Applied and Environmental Microbiology, 2017, 83, .	1.4	43
33	Quantitative Proteomics and Transcriptomics Addressing the Estrogen Receptor Subtype-mediated Effects in T47D Breast Cancer Cells Exposed to the Phytoestrogen Genistein. Molecular and Cellular Proteomics, 2011, 10, M110.002170.	2.5	40
34	Difference in the Breast Milk Proteome between Allergic and Non-Allergic Mothers. PLoS ONE, 2015, 10, e0122234.	1.1	39
35	Changes over lactation in breast milk serum proteins involved in the maturation of immune and digestive system of the infant. Journal of Proteomics, 2016, 147, 40-47.	1.2	39
36	The deep-subsurface sulfate reducer Desulfotomaculum kuznetsovii employs two methanol-degrading pathways. Nature Communications, 2018, 9, 239.	5.8	36

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37	Unravelling lactateâ€acetate and sugar conversion into butyrate by intestinal Anaerobutyricum and Anaerostipes species by comparative proteogenomics. Environmental Microbiology, 2020, 22, 4863-4875.	1.8	36
38	Metaproteomics reveals functional differences in intestinal microbiota development of preterm infants. Molecular and Cellular Proteomics, 2017, 16, 1610-1620.	2.5	35
39	Effect of the DGAT1 K232A genotype of dairy cows on the milk metabolome and proteome. Journal of Dairy Science, 2015, 98, 3460-3469.	1.4	34
40	Perspective on calf and mammary gland development through changes in the bovine milk proteome over a complete lactation. Journal of Dairy Science, 2015, 98, 5362-5373.	1.4	34
41	Development of omicsâ€based protocols for the microbiological characterization of multiâ€strain formulations marketed as probiotics: the case of VSL#3. Microbial Biotechnology, 2019, 12, 1371-1386.	2.0	30
42	The effect of low vs. high temperature dry heating on solubility and digestibility of cow's milk protein. Food Hydrocolloids, 2020, 109, 106098.	5.6	29
43	Biocatalytic Potential ofp-Hydroxybenzoate Hydroxylase fromRhodococcus rhodnii 135 andRhodococcus opacus 557. Advanced Synthesis and Catalysis, 2004, 346, 367-375.	2.1	27
44	Effect of milk serum proteins on aggregation, bacteriostatic activity and digestion of lactoferrin after heat treatment. Food Chemistry, 2021, 337, 127973.	4.2	27
45	A nuclearâ€targeted effector of Rhizophagus irregularis interferes with histone 2B monoâ€ubiquitination to promote arbuscular mycorrhization. New Phytologist, 2021, 230, 1142-1155.	3.5	26
46	Comparative proteomics of Geobacter sulfurreducens PCA^T in response to acetate, formate and/or hydrogen as electron donor. Environmental Microbiology, 2021, 23, 299-315.	1.8	25
47	Comprehensive annotation of Glossina pallidipes salivary gland hypertrophy virus from Ethiopian tsetse flies: a proteogenomics approach. Journal of General Virology, 2016, 97, 1010-1031.	1.3	24
48	Identification of lipid synthesis and secretion proteins in bovine milk. Journal of Dairy Research, 2014, 81, 65-72.	0.7	23
49	Variability of Serum Proteins in Chinese and Dutch Human Milk during Lactation. Nutrients, 2019, 11, 499.	1.7	23
50	Bacterial Microcompartment-Dependent 1,2-Propanediol Utilization Stimulates Anaerobic Growth of Listeria monocytogenes EGDe. Frontiers in Microbiology, 2019, 10, 2660.	1.5	22
51	Syringa oblata Lindl var. alba as a source of oleuropein and related compounds. Journal of the Science of Food and Agriculture, 2007, 87, 160-166.	1.7	21
52	Genome and proteome analysis of <scp>P</scp>seudomonas chloritidismutansâ€...<scp>AW</scp>â€‘1 <scp>^T</scp> that grows on nâ€decane with chlorate or oxygen as electron acceptor. Environmental Microbiology, 2016, 18, 3247-3257.	1.8	21
53	Changes in the milk serum proteome after thermal and non-thermal treatment. Innovative Food Science and Emerging Technologies, 2020, 66, 102544.	2.7	21
54	Changes over lactation in breast milk serum proteins involved in the maturation of immune and digestive system of the infant. Data in Brief, 2016, 7, 362-365.	0.5	19

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55	Identification of Tomato Proteins That Interact With Replication Initiator Protein (Rep) of the Geminivirus TYLCV. Frontiers in Plant Science, 2020, 11, 1069.	1.7	19
56	Bacterial Microcompartments Coupled with Extracellular Electron Transfer Drive the Anaerobic Utilization of Ethanolamine in Listeria monocytogenes. MSystems, 2021, 6, .	1.7	18
57	Propionate Production from Carbon Monoxide by Synthetic Cocultures of Acetobacterium wieringae and Propionigenic Bacteria. Applied and Environmental Microbiology, 2021, 87, e0283920.	1.4	17
58	Extracellular vesicle formation in Lactococcus lactis is stimulated by prophageâ€encoded holinâ€“lysin system. Microbial Biotechnology, 2022, 15, 1281-1295.	2.0	17
59	Correlation between structure, protein composition, morphogenesis and cytopathology of Glossina pallidipes salivary gland hypertrophy virus. Journal of General Virology, 2013, 94, 193-208.	1.3	16
60	Nonselective Chemical Inhibition of Sec7 Domain-Containing ARF GTPase Exchange Factors. Plant Cell, 2018, 30, 2573-2593.	3.1	16
61	Peptide Release after Simulated Infant In Vitro Digestion of Dry Heated Cowâ€™s Milk Protein and Transport of Potentially Immunoreactive Peptides across the Caco-2 Cell Monolayer. Nutrients, 2020, 12, 2483.	1.7	16
62	Maturation of the preterm gastrointestinal tract can be defined by host and microbial markers for digestion and barrier defense. Scientific Reports, 2021, 11, 12808.	1.6	15
63	Lipoproteins Contribute to the Anti-inflammatory Capacity of Lactobacillus plantarum WCFS1. Frontiers in Microbiology, 2020, 11, 1822.	1.5	13
64	High-Temperature Short-Time Preserves Human Milk's Bioactive Proteins and Their Function Better Than Pasteurization Techniques With Long Processing Times. Frontiers in Pediatrics, 2021, 9, 798609.	0.9	13
65	Type 2 diabetes-related proteins derived from an in vitro model of inflamed fat tissue. Archives of Biochemistry and Biophysics, 2018, 644, 81-92.	1.4	12
66	Propionibacterium freudenreichii thrives in microaerobic conditions by complete oxidation of lactate to <scp>CO₂</scp>. Environmental Microbiology, 2021, 23, 3116-3129.	1.8	12
67	A proteomics approach reveals molecular manipulators of distinct cellular processes in the salivary glands of Glossina m. morsitans in response to Trypanosoma b. brucei infections. Parasites and Vectors, 2016, 9, 424.	1.0	11
68	Maternal Allergy and the Presence of Nonhuman Proteinaceous Molecules in Human Milk. Nutrients, 2020, 12, 1169.	1.7	10
69	Proteomic analysis of nitrate-dependent acetone degradation by Alicycliphilus denitrificans strain BC. FEMS Microbiology Letters, 2015, 362, .	0.7	9
70	Temporal proteomic analysis and label-free quantification of viral proteins of an invertebrate iridovirus. Journal of General Virology, 2015, 96, 196-205.	1.3	9
71	Bacterial Microcompartment-Dependent 1,2-Propanediol Utilization of Propionibacterium freudenreichii. Frontiers in Microbiology, 2021, 12, 679827.	1.5	9
72	Lactococcus lactis Mutants Obtained From Laboratory Evolution Showed Elevated Vitamin K2 Content and Enhanced Resistance to Oxidative Stress. Frontiers in Microbiology, 2021, 12, 746770.	1.5	9

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73	Comparative genomics and proteomics of Eubacterium maltosivorans: functional identification of trimethylamine methyltransferases and bacterial microcompartments in a human intestinal bacterium with a versatile lifestyle. Environmental Microbiology, 2022, 24, 517-534.	1.8	8
74	Amino acid substitutions in ribosomal protein RpsU enable switching between high fitness and multiple-stress resistance in Listeria monocytogenes. International Journal of Food Microbiology, 2021, 351, 109269.	2.1	7
75	Exploring Human Milk Dynamics: Interindividual Variation in Milk Proteome, Peptidome, and Metabolome. Journal of Proteome Research, 2022, 21, 1002-1016.	1.8	7
76	Degradation of Proteins From Colostrum and Mature Milk From Chinese Mothers Using an in vitro Infant Digestion Model. Frontiers in Nutrition, 2020, 7, 162.	1.6	6
77	GLYCINE-RICH RNA-BINDING PROTEIN 7 potentiates effector-triggered immunity through an RNA recognition motif. Plant Physiology, 2022, 189, 972-987.	2.3	6
78	Proteomic analysis of the plasma membrane-movement tubule complex of cowpea mosaic virus. Archives of Virology, 2016, 161, 1309-1314.	0.9	5
79	Anaerobic Growth of Listeria monocytogenes on Rhamnose Is Stimulated by Vitamin B ₁₂ and Bacterial Microcompartment-Dependent 1,2-Propanediol Utilization. MSphere, 2021, 6, e0043421.	1.3	5
80	Effects of High-Pressure Processing, UV-C Irradiation and Thermoultrasonication on Donor Human Milk Safety and Quality. Frontiers in Pediatrics, 2022, 10, 828448.	0.9	5
81	Physiological Roles of Short-Chain and Long-Chain Menaquinones (Vitamin K2) in Lactococcus cremoris. Frontiers in Microbiology, 2022, 13, 823623.	1.5	5
82	An Isoform of the Eukaryotic Translation Elongation Factor 1A (eEF1a) Acts as a Pro-Viral Factor Required for Tomato Spotted Wilt Virus Disease in Nicotiana benthamiana. Viruses, 2021, 13, 2190.	1.5	3
83	Proteomic Analysis of a Syntrophic Coculture of Syntrophobacter fumaroxidans MPOBT and Geobacter sulfurreducens PCAT. Frontiers in Microbiology, 2021, 12, 708911.	1.5	3
84	Changes in Plasma Protein Expression Indicative of Early Diet-induced Metabolic Disease in Male Pigs (Sus scrofa). Comparative Medicine, 2018, 68, 286-293.	0.4	2
85	Dataset on proteomic changes of whey protein after different heat treatment. Data in Brief, 2020, 29, 105227.	0.5	2
86	Identification of Brassinosteroid Signaling Complexes by Coimmunoprecipitation and Mass Spectrometry. Methods in Molecular Biology, 2017, 1564, 145-154.	0.4	2
87	Manganese Modulates Metabolic Activity and Redox Homeostasis in Translationally Blocked Lactococcus cremoris , Impacting Metabolic Persistence, Cell Culturability, and Flavor Formation. Microbiology Spectrum, 2022, 10, .	1.2	1
88	Influence of Dry Period Length of Swedish Dairy Cows on the Proteome of Colostrum. Dairy, 2020, 1, 313-325.	0.7	0
89	First Insight into the Variation of the Milk Serum Proteome within and between Individual Cows. Dairy, 2022, 3, 47-58.	0.7	0