Kasper Arthur Hettinga

List of Publications by Year
in descending order

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116 papers	3,239 citations	136740 32 h-index	189595 50 g-index
119 all docs	119 docs citations	119 times ranked	3528 citing authors

#	Article	IF	Citations
1	The Host Defense Proteome of Human and Bovine Milk. PLoS ONE, 2011, 6, e19433.	1.1	210
2	Influence of different proteolytic strains of Streptococcus thermophilus in co-culture with Lactobacillus delbrueckii subsp. bulgaricus on the metabolite profile of set-yoghurt. International Journal of Food Microbiology, 2014, 177, 29-36.	2.1	167
3	How processing may affect milk protein digestion and overall physiological outcomes: A systematic review. Critical Reviews in Food Science and Nutrition, 2020, 60, 2422-2445.	5.4	130
4	Predicting bovine milk fat composition using infrared spectroscopy based on milk samples collected in winter and summer. Journal of Dairy Science, 2009, 92, 6202-6209.	1.4	106
5	Enteric methane production, rumen volatile fatty acid concentrations, and milk fatty acid composition in lactating Holstein-Friesian cows fed grass silage- or corn silage-based diets. Journal of Dairy Science, 2015, 98, 1915-1927.	1.4	98
6	Changes in Milk Proteome and Metabolome Associated with Dry Period Length, Energy Balance, and Lactation Stage in Postparturient Dairy Cows. Journal of Proteome Research, 2013, 12, 3288-3296.	1.8	83
7	Evaluation of portable near-infrared spectroscopy for organic milk authentication. Talanta, 2018, 184, 128-135.	2.9	82
8	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
9	Detection of Mastitis Pathogens by Analysis of Volatile Bacterial Metabolites. Journal of Dairy Science, 2008, 91, 3834-3839.	1.4	67
10	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
11	Human Milk Oligosaccharides in Colostrum and Mature Milk of Chinese Mothers: Lewis Positive Secretor Subgroups. Journal of Agricultural and Food Chemistry, 2018, 66, 7036-7043.	2.4	65
12	Endogenous Human Milk Peptide Release Is Greater after Preterm Birth than Term Birth. Journal of Nutrition, 2015, 145, 425-433.	1.3	63
13	The Extracellular Protease AprX from Pseudomonas and its Spoilage Potential for UHT Milk: A Review. Comprehensive Reviews in Food Science and Food Safety, 2019, 18, 834-852.	5.9	60
14	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
15	Human Milk Short-Chain Fatty Acid Composition is Associated with Adiposity Outcomes in Infants. Journal of Nutrition, 2019, 149, 716-722.	1.3	57
16	Recent Advances in Phospholipids from Colostrum, Milk and Dairy By-Products. International Journal of Molecular Sciences, 2017, 18, 173.	1.8	56
17	Effect of Processing Intensity on Immunologically Active Bovine Milk Serum Proteins. Nutrients, 2017, 9, 963.	1.7	56
18	Human Milk from Previously COVID-19-Infected Mothers: The Effect of Pasteurization on Specific Antibodies and Neutralization Capacity. Nutrients, 2021, 13, 1645.	1.7	54

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19	The Beneficial Effect of Farm Milk Consumption on Asthma, Allergies, and Infections: From Meta-Analysis of Evidence to Clinical Trial. Journal of Allergy and Clinical Immunology: in Practice, 2020, 8, 878-889.e3.	2.0	53
20	Comprehensive peptidomic and glycomic evaluation reveals that sweet whey permeate from colostrum is a source of milk protein-derived peptides and oligosaccharides. Food Research International, 2014, 63, 203-209.	2.9	46
21	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
22	Fraud vulnerability in the Dutch milk supply chain: Assessments of farmers, processors and retailers. Food Control, 2019, 95, 308-317.	2.8	45
23	Effect of heat treatment on bacteriostatic activity and protein profile of bovine whey proteins. Food Research International, 2020, 127, 108688.	2.9	44
24	Milk Fat Content and DGAT1 Genotype Determine Lipid Composition of the Milk Fat Globule Membrane. PLoS ONE, 2013, 8, e68707.	1.1	43
25	The origin of the volatile metabolites found in mastitis milk. Veterinary Microbiology, 2009, 137, 384-387.	0.8	40
26	Peptidomic analysis of healthy and subclinically mastitic bovine milk. International Dairy Journal, 2015, 46, 46-52.	1.5	40
27	Difference in the Breast Milk Proteome between Allergic and Non-Allergic Mothers. PLoS ONE, 2015, 10, e0122234.	1.1	39
28	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
29	Destabilization of UHT milk by protease AprX from Pseudomonas fluorescens and plasmin. Food Chemistry, 2018, 263, 127-134.	4.2	39
30	An interactomics overview of the human and bovine milk proteome over lactation. Proteome Science, 2016, 15, 1.	0.7	37
31	Lysine blockage of milk proteins in infant formula impairs overall protein digestibility and peptide release. Food and Function, 2020, 11, 358-369.	2.1	37
32	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
33	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
34	The decrease in the IgG-binding capacity of intensively dry heated whey proteins is associated with intense Maillard reaction, structural changes of the proteins and formation of RAGE-ligands. Food and Function, 2016, 7, 239-249.	2.1	34
35	Linseed oil and DGAT1 K232A polymorphism: Effects on methane emission, energy and nitrogen metabolism, lactation performance, ruminal fermentation, and rumen microbial composition of Holstein-Friesian cows. Journal of Dairy Science, 2017, 100, 8939-8957.	1.4	34
36	A proteomic perspective on the changes in milk proteins due to high somatic cell count. Journal of Dairy Science, 2015, 98, 5339-5351.	1.4	33

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37	Predicting enteric methane emission of dairy cows with milk Fourier-transform infrared spectra and gas chromatographyâ€“based milk fatty acid profiles. Journal of Dairy Science, 2018, 101, 5582-5598.	1.4	30
38	Portraying and tracing the impact of different production systems on the volatile organic compound composition of milk by PTR-(Quad)MS and PTR-(ToF)MS. Food Chemistry, 2018, 239, 201-207.	4.2	29
39	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
40	Effect of milk serum proteins on aggregation, bacteriostatic activity and digestion of lactoferrin after heat treatment. Food Chemistry, 2021, 337, 127973.	4.2	27
41	The Chinese milk supply chain: A fraud perspective. Food Control, 2020, 113, 107211.	2.8	26
42	Loss of allergy-protective capacity of raw cow's milk after heat treatment coincides with loss of immunologically active whey proteins. Food and Function, 2020, 11, 4982-4993.	2.1	24
43	Identification of lipid synthesis and secretion proteins in bovine milk. Journal of Dairy Research, 2014, 81, 65-72.	0.7	23
44	Generation of Soluble Advanced Glycation End Products Receptor (sRAGE)-Binding Ligands during Extensive Heat Treatment of Whey Protein/Lactose Mixtures Is Dependent on Glycation and Aggregation. Journal of Agricultural and Food Chemistry, 2016, 64, 6477-6486.	2.4	23
45	Variability of Serum Proteins in Chinese and Dutch Human Milk during Lactation. Nutrients, 2019, 11, 499.	1.7	23
46	Stability of fat globules in UHT milk during proteolysis by the AprX protease from Pseudomonas fluorescens and by plasmin. Journal of Dairy Science, 2020, 103, 179-190.	1.4	23
47	Milk metabolome relates enteric methane emission to milk synthesis and energy metabolism pathways. Journal of Dairy Science, 2016, 99, 6251-6262.	1.4	22
48	Concentrations of n-3 and n-6 fatty acids in Dutch bovine milk fat and their contribution to human dietary intake. Journal of Dairy Science, 2013, 96, 4173-4181.	1.4	21
49	A proteomics-based identification of putative biomarkers for disease in bovine milk. Veterinary Immunology and Immunopathology, 2016, 174, 11-18.	0.5	21
50	Mechanisms Underlying the Skin-Gut Cross Talk in the Development of IgE-Mediated Food Allergy. Nutrients, 2020, 12, 3830.	1.7	21
51	Changes in the milk serum proteome after thermal and non-thermal treatment. Innovative Food Science and Emerging Technologies, 2020, 66, 102544.	2.7	21
52	Ultrasonication retains more milk fat globule membrane proteins compared to equivalent shear-homogenization. Innovative Food Science and Emerging Technologies, 2021, 70, 102703.	2.7	21
53	Dairy farming system markers: The correlation of forage and milk fatty acid profiles from organic, pasture and conventional systems in the Netherlands. Food Chemistry, 2020, 314, 126153.	4.2	20
54	Can recombinant milk proteins replace those produced by animals?. Current Opinion in Biotechnology, 2022, 75, 102690.	3.3	20

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55	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
56	Persistent challenges in safety and hygiene control practices in emerging dairy chains: The case of Tanzania. Food Control, 2019, 105, 164-173.	2.8	19
57	Hydrophobicity and aggregation, but not glycation, are key determinants for uptake of thermally processed Î²-lactoglobulin by THP-1 macrophages. Food Research International, 2019, 120, 102-113.	2.9	19
58	Micronutrient deficiencies in critical illness. Clinical Nutrition, 2021, 40, 3780-3786.	2.3	19
59	Effects of microfiltration combined with ultrasonication on shelf life and bioactive protein of skim milk. Ultrasonics Sonochemistry, 2021, 77, 105668.	3.8	19
60	Differential Effects of Dry vs. Wet Heating of Î²-Lactoglobulin on Formation of sRAGE Binding Ligands and sIgE Epitope Recognition. Nutrients, 2019, 11, 1432.	1.7	17
61	Heat-induced unfolding facilitates plant protein digestibility during in vitro static infant digestion. Food Chemistry, 2022, 375, 131878.	4.2	17
62	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
63	Heat treatment of Î²-lactoglobulin affects its digestion and translocation in the upper digestive tract. Food Chemistry, 2020, 330, 127184.	4.2	16
64	Characterizing the changes of bovine milk serum proteins after simulated industrial processing. LWT - Food Science and Technology, 2020, 133, 110101.	2.5	15
65	Serum Protein N-Glycans in Colostrum and Mature Milk of Chinese Mothers. Journal of Agricultural and Food Chemistry, 2020, 68, 6873-6883.	2.4	15
66	Relationships between milk fatty acid profiles and enteric methane production in dairy cattle fed grass- or grass silage-based diets. Animal Production Science, 2016, 56, 541.	0.6	13
67	Short communication: Influence of shortening the dry period of Swedish dairy cows on plasmin activity in milk. Journal of Dairy Science, 2016, 99, 9300-9306.	1.4	13
68	Geography and ethnicity related variation in the Chinese human milk serum proteome. Food and Function, 2019, 10, 7818-7827.	2.1	13
69	Opportunities for fraudsters: When would profitable milk adulterations go unnoticed by common, standardized FTIR measurements?. Food Research International, 2020, 136, 109543.	2.9	13
70	â€œDonor milk banking: Improving the futureâ€• A survey on the operation of the European donor human milk banks. PLoS ONE, 2021, 16, e0256435.	1.1	13
71	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
72	Changes in the repertoire of bovine milk proteins during mammary involution. EuPA Open Proteomics, 2015, 9, 65-75.	2.5	12

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73	Dairy in a sustainable diet: a question of balance. Nutrition Reviews, 2015, 73, 48-54.	2.6	12
74	Effect of shortening or omitting the dry period of Holstein-Friesian cows on casein composition of milk. Journal of Dairy Science, 2015, 98, 8678-8687.	1.4	11
75	Proteomics data in support of the quantification of the changes of bovine milk proteins during mammary gland involution. Data in Brief, 2016, 8, 52-55.	0.5	11
76	A customized assessment tool to differentiate safety and hygiene control practices in emerging dairy chains. Food Control, 2020, 111, 107072.	2.8	11
77	Binding of CML-Modified as Well as Heat-Glycated Î²-lactoglobulin to Receptors for AGEs Is Determined by Charge and Hydrophobicity. International Journal of Molecular Sciences, 2020, 21, 4567.	1.8	11
78	Perspective: A Legal and Nutritional Perspective on the Introduction of Quinoa-Based Infant and Follow-on Formula in the EU. Advances in Nutrition, 2021, 12, 1100-1107.	2.9	11
79	The relationship between milk metabolome and methane emission of Holstein Friesian dairy cows: Metabolic interpretation and prediction potential. Journal of Dairy Science, 2018, 101, 2110-2126.	1.4	10
80	Maternal Allergy and the Presence of Nonhuman Proteinaceous Molecules in Human Milk. Nutrients, 2020, 12, 1169.	1.7	10
81	The influence of incubation on the formation of volatile bacterial metabolites in mastitis milk. Journal of Dairy Science, 2009, 92, 4901-4905.	1.4	9
82	Prevalence of Milk Fraud in the Chinese Market and its Relationship with Fraud Vulnerabilities in the Chain. Foods, 2020, 9, 709.	1.9	8
83	A THP-1 Cell Line-Based Exploration of Immune Responses Toward Heat-Treated BLG. Frontiers in Nutrition, 2020, 7, 612397.	1.6	8
84	A tailored food safety and hygiene training approach for dairy farmers in an emerging dairy chain. Food Control, 2021, 124, 107918.	2.8	8
85	Gastrointestinal Protein Hydrolysis Kinetics: Opportunities for Further Infant Formula Improvement. Nutrients, 2022, 14, 1512.	1.7	8
86	Breastmilk: A Source of SARS-CoV-2 Specific IgA Antibodies. SSRN Electronic Journal, 0, , .	0.4	7
87	Exploring Human Milk Dynamics: Interindividual Variation in Milk Proteome, Peptidome, and Metabolome. Journal of Proteome Research, 2022, 21, 1002-1016.	1.8	7
88	Lactose in the dairy production chain. , 2019, , 231-266.		6
89	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
90	Exploration of an ultrasonic pulse echo system for comparison of milks, creams, and their dilutions. LWT - Food Science and Technology, 2021, 136, 110616.	2.5	6

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91	Enhanced Uptake of Processed Bovine Î²â€Lactoglobulin by Antigen Presenting Cells: Identification of Receptors and Implications for Allergenicity. Molecular Nutrition and Food Research, 2021, 65, e2000834.	1.5	6
92	Thermoultrasonication, ultraviolet-C irradiation, and high-pressure processing: Novel techniques to preserve insulin in donor human milk. Clinical Nutrition, 2021, 40, 5655-5658.	2.3	6
93	Introduction of Heated Cowâ€™s Milk Protein in Challenge-Proven Cowâ€™s Milk Allergic Children: The iAGE Study. Nutrients, 2022, 14, 629.	1.7	6
94	Short communication: Changes under low ambient temperatures in the milk lipodome and metabolome of mid-lactation cows after dehorning as a calf. Journal of Dairy Science, 2019, 102, 2698-2702.	1.4	5
95	Hydrophobicity drives receptor-mediated uptake of heat-processed proteins by THP-1 macrophages and dendritic cells, but not cytokine responses. PLoS ONE, 2020, 15, e0236212.	1.1	5
96	Short communication: Volatile profile of matured TronchÃ³n cheese affected by oxytetracycline in raw goat milk. Journal of Dairy Science, 2020, 103, 6015-6021.	1.4	5
97	Retaining bioactive proteins and extending shelf life of skim milk by microfiltration combined with Ultraviolet-C treatment. LWT - Food Science and Technology, 2021, 141, 110945.	2.5	5
98	Testing the effects of processing on donor human Milk: Analytical methods. Food Chemistry, 2022, 373, 131413.	4.2	5
99	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
100	Study used wrong assumption about galactose content of fermented dairy products. BMJ, The, 2014, 349, g7000-g7000.	3.0	4
101	Short communication: The effect of linseed oil and DGAT1 K232A polymorphism on the methane emission prediction potential of milk fatty acids. Journal of Dairy Science, 2018, 101, 5599-5604.	1.4	4
102	Assessment of milk protein digestion kinetics: effects of denaturation by heat and protein type used. Food and Function, 2022, 13, 5715-5729.	2.1	4
103	Omics and Systems Biology: Integration of Production and Omics Data in Systems Biology. , 2018, , 463-485.		3
104	Use of UV Treated Milk Powder to Increase Vaccine Efficacy in the Elderly. Frontiers in Immunology, 2018, 9, 2254.	2.2	3
105	Short communication: Short-time freezing does not alter the sensory properties or the physical stability of ultra-high-temperature hydrolyzed-lactose milk. Journal of Dairy Science, 2020, 103, 8822-8828.	1.4	3
106	Feeding hydrogenated palm fatty acids and rumen-protected protein to lactating Holstein-Friesian dairy cows modifies milk fat triacylglycerol composition and structure, and solid fat content. Journal of Dairy Science, 2022, 105, 2828-2839.	1.4	3
107	Non-invasive monitoring of in vitro gastric milk protein digestion kinetics by 1H NMR magnetization transfer. Food Chemistry, 2022, 383, 132545.	4.2	3
108	Short communication: Practical issues in implementing volatile metabolite analysis for identifying mastitis pathogens. Journal of Dairy Science, 2015, 98, 7906-7910.	1.4	2

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109	Implications of differences in safety and hygiene control practices for microbial safety and aflatoxin M1 in an emerging dairy chain: The case of Tanzania. Food Control, 2020, 118, 107453.	2.8	2
110	Dataset on proteomic changes of whey protein after different heat treatment. Data in Brief, 2020, 29, 105227.	0.5	2
111	No Glycation Required: Interference of Casein in AGE Receptor Binding Tests. Foods, 2021, 10, 1836.	1.9	2
112	Processing methods of donor human milk evaluated by a blood plasma clotting assay. Innovative Food Science and Emerging Technologies, 2022, 76, 102938.	2.7	1
113	Contribution of Dairy to Nutrient Intake in the Western Diet. , 2017, , 251-258.		0
114	Improving peer review quality by grading the best contribution of each student: educational principle and evaluation design. , 2019, , .		0
115	Influence of Dry Period Length of Swedish Dairy Cows on the Proteome of Colostrum. Dairy, 2020, 1, 313-325.	0.7	0
116	First Insight into the Variation of the Milk Serum Proteome within and between Individual Cows. Dairy, 2022, 3, 47-58.	0.7	0