

# Sander S Van Leeuwen

## List of Publications by Year in descending order

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Version: 2024-02-01

67  
papers

2,202  
citations

218592

26  
h-index

243529

44  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1746  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sialic acid, the secret gift for the brain. <i>Critical Reviews in Food Science and Nutrition</i> , 2023, 63, 9875-9894.	5.4	10
2	Variations in N-linked glycosylation of glycosylation-dependent cell adhesion molecule 1 (GlyCAM-1) whey protein: Intercow differences and dietary effects. <i>Journal of Dairy Science</i> , 2021, 104, 5056-5068.	1.4	3
3	Combining HPAEC-PAD, PGC-LC-MS, and 1D <sup>1</sup> H NMR to Investigate Metabolic Fates of Human Milk Oligosaccharides in 1-Month-Old Infants: a Pilot Study. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 6495-6509.	2.4	9
4	Structure-Specific Fermentation of Galacto-Oligosaccharides, Isomalto-Oligosaccharides and Isomalto/Malto-Polysaccharides by Infant Fecal Microbiota and Impact on Dendritic Cell Cytokine Responses. <i>Molecular Nutrition and Food Research</i> , 2021, 65, e2001077.	1.5	13
5	Extraction and Quantitative Analysis of Goat Milk Oligosaccharides: Composition, Variation, Associations, and <sup>2</sup> -FL Variability. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 7851-7862.	2.4	11
6	<sup>2</sup> -Fucosyllactose impacts the expression of mucus-related genes in goblet cells and maintains barrier function of gut epithelial cells. <i>Journal of Functional Foods</i> , 2021, 85, 104630.	1.6	8
7	Inulin-grown <i>Faecalibacterium prausnitzii</i> cross-feeds fructose to the human intestinal epithelium. <i>Gut Microbes</i> , 2021, 13, 1993582.	4.3	12
8	Dynamic Temporal Variations in Bovine Lactoferrin Glycan Structures. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 549-560.	2.4	21
9	Quantitative analysis of bovine whey glycoproteins using the overall N-linked whey glycoprofile. <i>International Dairy Journal</i> , 2020, 110, 104814.	1.5	6
10	Gut bacterial deamination of residual levodopa medication for Parkinson's disease. <i>BMC Biology</i> , 2020, 18, 137.	1.7	32
11	Goat Milk Oligosaccharides: Their Diversity, Quantity, and Functional Properties in Comparison to Human Milk Oligosaccharides. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 13469-13485.	2.4	52
12	Inhibitory Effects of Dietary N-Glycans From Bovine Lactoferrin on Toll-Like Receptor 8; Comparing Efficacy With Chloroquine. <i>Frontiers in Immunology</i> , 2020, 11, 790.	2.2	12
13	In Depth Analysis of the Contribution of Specific Glycoproteins to the Overall Bovine Whey N-Linked Glycoprofile. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 6544-6553.	2.4	11
14	Touching the High Complexity of Prebiotic Vivinal Galacto-oligosaccharides Using Porous Graphitic Carbon Ultra-High-Performance Liquid Chromatography Coupled to Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 7800-7808.	2.4	24
15	The association between breastmilk oligosaccharides and faecal microbiota in healthy breastfed infants at two, six, and twelve weeks of age. <i>Scientific Reports</i> , 2020, 10, 4270.	1.6	70
16	Structural Comparison of Different Galacto-oligosaccharide Mixtures Formed by $\beta$ -Galactosidases from Lactic Acid Bacteria and Bifidobacteria. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 4437-4446.	2.4	14
17	The impact of oligosaccharide content, glycosidic linkages and lactose content of galacto-oligosaccharides (GOS) on the expression of mucus-related genes in goblet cells. <i>Food and Function</i> , 2020, 11, 3506-3515.	2.1	21
18	Challenges and Pitfalls in Human Milk Oligosaccharide Analysis. <i>Nutrients</i> , 2019, 11, 2684.	1.7	43

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19	Correlating Infant Fecal Microbiota Composition and Human Milk Oligosaccharide Consumption by Microbiota of 1-Month-Old Breastfed Infants. <i>Molecular Nutrition and Food Research</i> , 2019, 63, e1801214.	1.5	83
20	Large-scale quantitative isolation of pure protein N-linked glycans. <i>Carbohydrate Research</i> , 2019, 479, 13-22.	1.1	16
21	Synthesis and Characterization of Sialylated Lactose- and Lactulose-Derived Oligosaccharides by <i>Trypanosoma cruzi</i> Trans-sialidase. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 3469-3479.	2.4	10
22	Structural Identity of Galactooligosaccharide Molecules Selectively Utilized by Single Cultures of Probiotic Bacterial Strains. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 13969-13977.	2.4	29
23	Structural and functional characterization of a family GH53 $\beta$ -1,4-galactanase from <i>Bacteroides thetaiotaomicron</i> that facilitates degradation of prebiotic galactooligosaccharides. <i>Journal of Structural Biology</i> , 2019, 205, 1-10.	1.3	31
24	Stimulatory effects of novel glucosylated lactose derivatives GL34 on growth of selected gut bacteria. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 707-718.	1.7	5
25	Biochemical characterization of two GH70 family 4,6- $\beta$ -glucanotransferases with distinct product specificity from <i>Lactobacillus aviarius</i> subsp. <i>aviarius</i> DSM 20655. <i>Food Chemistry</i> , 2018, 253, 236-246.	4.2	26
26	Regional variations in human milk oligosaccharides in Vietnam suggest FucTx activity besides FucT2 and FucT3. <i>Scientific Reports</i> , 2018, 8, 16790.	1.6	28
27	Mutational Analysis of the Role of the Glucansucrase Gtf180's N Active Site Residues in Product and Linkage Specificity with Lactose as Acceptor Substrate. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 12544-12554.	2.4	6
28	Structural characterization of glucosylated GOS derivatives synthesized by the <i>Lactobacillus reuteri</i> GtfA and Gtf180 glucansucrase enzymes. <i>Carbohydrate Research</i> , 2018, 470, 57-63.	1.1	5
29	Biochemical characterization of a GH70 protein from <i>Lactobacillus kunkeei</i> DSM 12361 with two catalytic domains involving branching sucrose activity. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 7935-7950.	1.7	22
30	Synthesis of galacto-oligosaccharides derived from lactulose by wild-type and mutant $\beta$ -galactosidase enzymes from <i>Bacillus circulans</i> ATCC 31382. <i>Carbohydrate Research</i> , 2018, 465, 58-65.	1.1	12
31	Dietary N-Glycans from Bovine Lactoferrin and TLR Modulation. <i>Molecular Nutrition and Food Research</i> , 2018, 62, 1700389.	1.5	31
32	4,3- $\beta$ -Glucanotransferase, a novel reaction specificity in glycoside hydrolase family 70 and clan GH-H. <i>Scientific Reports</i> , 2017, 7, 39761.	1.6	42
33	Prebiotic galactooligosaccharides activate mucin and pectic galactan utilization pathways in the human gut symbiont <i>Bacteroides thetaiotaomicron</i> . <i>Scientific Reports</i> , 2017, 7, 40478.	1.6	41
34	Reaction kinetics and galactooligosaccharide product profiles of the $\beta$ -galactosidases from <i>Bacillus circulans</i> , <i>Kluyveromyces lactis</i> and <i>Aspergillus oryzae</i> . <i>Food Chemistry</i> , 2017, 225, 230-238.	4.2	67
35	Engineering of the <i>Bacillus circulans</i> $\beta$ -Galactosidase Product Specificity. <i>Biochemistry</i> , 2017, 56, 704-711.	1.2	30
36	Catechol glucosides act as donor/acceptor substrates of glucansucrase enzymes of <i>Lactobacillus reuteri</i> . <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 4495-4505.	1.7	6

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37	Mining novel starch-converting Glycoside Hydrolase 70 enzymes from the Nestlé® Culture Collection genome database: The <i>Lactobacillus reuteri</i> NCC 2613 GtfB. <i>Scientific Reports</i> , 2017, 7, 9947.	1.6	27
38	Structural characterization of glucosylated lactose derivatives synthesized by the <i>Lactobacillus reuteri</i> GtfA and Gtf180 glucansucrase enzymes. <i>Carbohydrate Research</i> , 2017, 449, 59-64.	1.1	13
39	Biochemical Characterization of the Functional Roles of Residues in the Active Site of the $\beta$ -Galactosidase from <i>Bacillus circulans</i> ATCC 31382. <i>Biochemistry</i> , 2017, 56, 3109-3118.	1.2	12
40	Molecular and biochemical characteristics of the inulosucrase HugO from <i>Streptomyces viridochromogenes</i> DSM40736 (TÅ¼494). <i>Microbiology (United Kingdom)</i> , 2017, 163, 1030-1041.	0.7	14
41	Characterization of the <i>Paenibacillus beijingensis</i> DSM 24997 GtfD and its glucan polymer products representing a new glycoside hydrolase 70 subfamily of 4,6- $\beta$ -glucanotransferase enzymes. <i>PLoS ONE</i> , 2017, 12, e0172622.	1.1	26
42	Structure-function relationships of family GH70 glucansucrase and 4,6- $\beta$ -glucanotransferase enzymes, and their evolutionary relationships with family GH13 enzymes. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 2681-2706.	2.4	64
43	Discovery of a Xylooligosaccharide Oxidase from <i>Myceliophthora thermophila</i> C1. <i>Journal of Biological Chemistry</i> , 2016, 291, 23709-23718.	1.6	26
44	Glucansucrase Gtf180- $\beta$ N of <i>Lactobacillus reuteri</i> 180: enzyme and reaction engineering for improved glycosylation of non-carbohydrate molecules. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 7529-7539.	1.7	17
45	Comparative structural characterization of 7 commercial galacto-oligosaccharide (GOS) products. <i>Carbohydrate Research</i> , 2016, 425, 48-58.	1.1	75
46	<i>Lactobacillus reuteri</i> Strains Convert Starch and Maltodextrins into Homoexopolysaccharides Using an Extracellular and Cell-Associated 4,6- $\beta$ -Glucanotransferase. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 2941-2952.	2.4	27
47	The Gram-negative bacterium <i>Azotobacter chroococcum</i> NCIMB 8003 employs a new glycoside hydrolase family 70 4,6- $\beta$ -glucanotransferase enzyme (GtfD) to synthesize a reuteran like polymer from maltodextrins and starch. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 1224-1236.	1.1	39
48	Glucosylation of Catechol with the GTFA Glucansucrase Enzyme from <i>Lactobacillus reuteri</i> and Sucrose as Donor Substrate. <i>Bioconjugate Chemistry</i> , 2016, 27, 937-946.	1.8	16
49	A GH57 4- $\beta$ -glucanotransferase of hyperthermophilic origin with potential for alkyl glycoside production. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 7101-7113.	1.7	8
50	Enzymatic Decoration of Prebiotic Galacto-oligosaccharides (Vivinal GOS) with Sialic Acid Using <i>Trypanosoma cruzi</i> trans-Sialidase and Two Bovine Sialoglycoconjugates as Donor Substrates. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 5976-5984.	2.4	15
51	Biochemical Characterization of the <i>Lactobacillus reuteri</i> Glycoside Hydrolase Family 70 GTFB Type of 4,6- $\beta$ -Glucanotransferase Enzymes That Synthesize Soluble Dietary Starch Fibers. <i>Applied and Environmental Microbiology</i> , 2015, 81, 7223-7232.	1.4	54
52	Rapid milk group classification by <sup>1</sup> H NMR analysis of Le and H epitopes in human milk oligosaccharide donor samples. <i>Glycobiology</i> , 2014, 24, 728-739.	1.3	39
53	<sup>1</sup> H NMR analysis of the lactose/ $\beta$ -galactosidase-derived galacto-oligosaccharide components of Vivinal® GOS up to DP5. <i>Carbohydrate Research</i> , 2014, 400, 59-73.	1.1	54
54	Development of a <sup>1</sup> H NMR structural-reporter-group concept for the analysis of prebiotic galacto-oligosaccharides of the [ $\beta$ -d-Gal p-(1 $\alpha$ ' x)] n-d-Glc p type. <i>Carbohydrate Research</i> , 2014, 400, 54-58.	1.1	27

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55	Galactosyl-Lactose Sialylation Using Trypanosoma cruzi trans-Sialidase as the Biocatalyst and Bovine $\beta$ -Casein-Derived Glycomacropeptide as the Donor Substrate. Applied and Environmental Microbiology, 2014, 80, 5984-5991.	1.4	20
56	Glucansucrases: Three-dimensional structures, reactions, mechanism, $\beta$ -glucan analysis and their implications in biotechnology and food applications. Journal of Biotechnology, 2013, 163, 250-272.	1.9	250
57	$\alpha$ - and $\beta$ -Glycosylation of a Commercial Bovine Whey Protein Product. Journal of Agricultural and Food Chemistry, 2012, 60, 12553-12564.	2.4	21
58	Use of Wisteria floribunda agglutinin affinity chromatography in the structural analysis of the bovine lactoferrin N-linked glycosylation. Biochimica Et Biophysica Acta - General Subjects, 2012, 1820, 1444-1455.	1.1	36
59	4,6- $\beta$ -Glucanotransferase, a Novel Enzyme That Structurally and Functionally Provides an Evolutionary Link between Glycoside Hydrolase Enzyme Families 13 and 70. Applied and Environmental Microbiology, 2011, 77, 8154-8163.	1.4	81
60	Structural Characterization of Bioengineered $\beta$ -d-Glucans Produced by Mutant Glucansucrase GTF180 Enzymes of Lactobacillus reuteri Strain 180. Biomacromolecules, 2009, 10, 580-588.	2.6	50
61	Structural analysis of the $\beta$ -d-glucan (EPS180) produced by the Lactobacillus reuteri strain 180 glucansucrase GTF180 enzyme. Carbohydrate Research, 2008, 343, 1237-1250.	1.1	86
62	Development of a $^1\text{H}$ NMR structural-reporter-group concept for the primary structural characterisation of $\beta$ -d-glucans. Carbohydrate Research, 2008, 343, 1114-1119.	1.1	100
63	Structural analysis of the $\beta$ -d-glucan (EPS35-5) produced by the Lactobacillus reuteri strain 35-5 glucansucrase GTFa enzyme. Carbohydrate Research, 2008, 343, 1251-1265.	1.1	61
64	Hybrid reuteransucrase enzymes reveal regions important for glucosidic linkage specificity and the transglucosylation/hydrolysis ratio. FEBS Journal, 2008, 275, 6002-6010.	2.2	15
65	Structural Analysis of Bioengineered $\beta$ -d-Glucan Produced by a Triple Mutant of the Glucansucrase GTF180 Enzyme from Lactobacillus reuteri Strain 180: Generation of ( $\beta$ 1 $\rightarrow$ 4) Linkages in a Native (1 $\rightarrow$ 3)(1 $\rightarrow$ 6)- $\beta$ -d-Glucan. Biomacromolecules, 2008, 9, 2251-2258.	2.6	31
66	Molecular cloning and characterization of the alkaline ceramidase from Pseudomonas aeruginosa PA01. Protein Expression and Purification, 2003, 30, 94-104.	0.6	7
67	Synthesis of a novel fluorescent ceramide analogue and its use in the characterization of recombinant ceramidase from Pseudomonas aeruginosa PA01. Chemistry and Physics of Lipids, 2002, 114, 181-191.	1.5	25