

Wesley F Zandberg

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,752
citations

331538

21
h-index

276775

41
g-index

46
all docs

46
docs citations

46
times ranked

2414
citing authors

#	ARTICLE	IF	CITATIONS
1	Hijacking a biosynthetic pathway yields a glycosyltransferase inhibitor within cells. <i>Nature Chemical Biology</i> , 2011, 7, 174-181.	3.9	291
2	HCF-1 Is Cleaved in the Active Site of O-GlcNAc Transferase. <i>Science</i> , 2013, 342, 1235-1239.	6.0	162
3	Photothermal Release of Single-Stranded DNA from the Surface of Gold Nanoparticles Through Controlled Denaturing and Au ⁺ S Bond Breaking. <i>ACS Nano</i> , 2010, 4, 6395-6403.	7.3	132
4	Structural snapshots of the reaction coordinate for O-GlcNAc transferase. <i>Nature Chemical Biology</i> , 2012, 8, 966-968.	3.9	132
5	Proximal colon-derived O-glycosylated mucus encapsulates and modulates the microbiota. <i>Science</i> , 2020, 370, 467-472.	6.0	122
6	O-GlcNAc occurs cotranslationally to stabilize nascent polypeptide chains. <i>Nature Chemical Biology</i> , 2015, 11, 319-325.	3.9	113
7	Analysis of a New Family of Widely Distributed Metal-independent α -Mannosidases Provides Unique Insight into the Processing of N-Linked Glycans. <i>Journal of Biological Chemistry</i> , 2011, 286, 15586-15596.	1.6	65
8	Metabolic Inhibitors of O-GlcNAc Transferase That Act <i>In Vivo</i> Implicate Decreased O-GlcNAc Levels in Leptin-Mediated Nutrient Sensing. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7644-7648.	7.2	56
9	3D biofilms: in search of the polysaccharides holding together lichen symbioses. <i>FEMS Microbiology Letters</i> , 2020, 367, .	0.7	45
10	Influence of sulfonated and diet-derived human milk oligosaccharides on the infant microbiome and immune markers. <i>Journal of Biological Chemistry</i> , 2020, 295, 4035-4048.	1.6	43
11	Metabolic Inhibition of Sialyl-Lewis X Biosynthesis by 5-Thiofucose Remodels the Cell Surface and Impairs Selectin-Mediated Cell Adhesion*. <i>Journal of Biological Chemistry</i> , 2012, 287, 40021-40030.	1.6	42
12	A Convenient Approach to Stereoisomeric Iminocyclitols: Generation of Potent Brain-Permeable OGA Inhibitors. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15429-15433.	7.2	41
13	Mammalian Notch is modified by d-Xyl-1-3-d-Xyl-1-3-d-Glc-1-O-Ser: Implementation of a method to study O-glycosylation. <i>Glycobiology</i> , 2010, 20, 287-299.	1.3	37
14	Catalytic Promiscuity of O-GlcNAc Transferase Enables Unexpected Metabolic Engineering of Cytoplasmic Proteins with 2-Azido-2-deoxy-glucose. <i>ACS Chemical Biology</i> , 2017, 12, 206-213.	1.6	34
15	Antimycobacterial activity of UDP-galactopyranose mutase inhibitors. <i>International Journal of Antimicrobial Agents</i> , 2010, 36, 364-368.	1.1	31
16	Carbohydrate Sulfation As a Mechanism for Fine-Tuning Siglec Ligands. <i>ACS Chemical Biology</i> , 2021, 16, 2673-2689.	1.6	31
17	Detailed characterization of glycosylated sensory-active volatile phenols in smoke-exposed grapes and wine. <i>Food Chemistry</i> , 2018, 259, 147-156.	4.2	29
18	Quantitating Organoleptic Volatile Phenols in Smoke-Exposed <i>Vitis vinifera</i> Berries. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 8418-8425.	2.4	28

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19	Photothermal release of small molecules from gold nanoparticles in live cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012, 8, 908-915.	1.7	27
20	Metabolism of Vertebrate Amino Sugars with N-Glycolyl Groups. <i>Journal of Biological Chemistry</i> , 2012, 287, 28882-28897.	1.6	23
21	Capillary Electrophoresis Analysis of Bovine Milk Oligosaccharides Permits an Assessment of the Influence of Diet and the Discovery of Nine Abundant Sulfated Analogues. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 8574-8583.	2.4	21
22	Development and Evaluation of a Vineyard-Based Strategy To Mitigate Smoke-Taint in Wine Grapes. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 14137-14142.	2.4	21
23	Host responses to <i>Clostridium perfringens</i> challenge in a chicken model of chronic stress. <i>Gut Pathogens</i> , 2020, 12, 24.	1.6	21
24	Metabolism of a hybrid algal galactan by members of the human gut microbiome. <i>Nature Chemical Biology</i> , 2022, 18, 501-510.	3.9	21
25	Quantitating Volatile Phenols in Cabernet Franc Berries and Wine after On-Vine Exposure to Smoke from a Simulated Forest Fire. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 695-703.	2.4	20
26	N-Glycosylation controls trafficking, zymogen activation and substrate processing of proprotein convertases PC1/3 and subtilisin kexin isozyme-1. <i>Glycobiology</i> , 2011, 21, 1290-1300.	1.3	19
27	Quantitation of Sialic Acids in Infant Formulas by Liquid Chromatography–Mass Spectrometry: An Assessment of Different Protein Sources and Discovery of New Analogues. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 8114-8123.	2.4	19
28	Structural analysis of broiler chicken small intestinal mucin O-glycan modification by <i>Clostridium perfringens</i> . <i>Poultry Science</i> , 2019, 98, 5074-5088.	1.5	19
29	Impact of hormone applications on ripening-related metabolites in Gewürztraminer grapes (<i>Vitis</i> Tj ETQq1 1 0.784314 rgBT /Overlo	4.2	16
30	Smoke from simulated forest fire alters secondary metabolites in <i>Vitis vinifera</i> L. berries and wine. <i>Planta</i> , 2018, 248, 1537-1550.	1.6	10
31	Large-Scale Reassessment of In-Vineyard Smoke-Taint Grapevine Protection Strategies and the Development of Predictive Off-Vine Models. <i>Molecules</i> , 2021, 26, 4311.	1.7	9
32	Synthesis of 4-methylumbelliferyl β -D-mannopyranosyl-(1 \rightarrow 6)- β -D-mannopyranoside and development of a coupled fluorescent assay for GH125 exo- β -1,6-mannosidases. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 4839-4845.	1.4	7
33	Metabolic Inhibitors of β -GlcNAc Transferase That Act In Vivo Implicate Decreased β -GlcNAc Levels in Leptin-Mediated Nutrient Sensing. <i>Angewandte Chemie</i> , 2018, 130, 7770-7774.	1.6	7
34	Analysis of the biosynthetic flux in bovine milk oligosaccharides reveals competition between sulfated and sialylated species and the existence of glucuronic acid-containing analogues. <i>Food Chemistry</i> , 2021, 361, 130143.	4.2	7
35	Chromatographic characterisation of 11 phytocannabinoids: Quantitative and fit-to-purpose performance as a function of extra-column variance. <i>Phytochemical Analysis</i> , 2018, 29, 507-515.	1.2	6
36	Glycosylation on proteins of the intestine and perimicrovillar membrane of <i>Triatoma (Meccus) pallidipennis</i> , under different feeding conditions. <i>Insect Science</i> , 2019, 26, 796-808.	1.5	6

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37	A Rapid Procedure for the Purification of 8-Aminopyrene Trisulfonate (APTS)-Labeled Glycans for Capillary Electrophoresis (CE)-Based Enzyme Assays. <i>Methods in Molecular Biology</i> , 2017, 1588, 223-236.	0.4	6
38	Glycosidically-Bound Volatile Phenols Linked to Smoke Taint: Stability during Fermentation with Different Yeasts and in Finished Wine. <i>Molecules</i> , 2021, 26, 4519.	1.7	4
39	5- α -Thiomannosides Block the Biosynthesis of Dolichol-Linked Oligosaccharides and Mimic Class I Congenital Disorders of Glycosylation. <i>ChemBioChem</i> , 2012, 13, 392-401.	1.3	2
40	Maternal Intake of Dietary Fat Pre-Programs Offspring's Gut Ecosystem Altering Colonization Resistance and Immunity to Infectious Colitis in Mice. <i>Molecular Nutrition and Food Research</i> , 2021, 65, 2000635.	1.5	2
41	Unique volatile chemical profiles produced by indigenous and commercial strains of <i>Saccharomyces uvarum</i> and <i>Saccharomyces cerevisiae</i> during laboratory-scale Chardonnay fermentations. <i>Oeno One</i> , 2021, 55, 101-122.	0.7	2
42	The dynamic morphology of glucose as expressed via Raman and terahertz spectroscopy. <i>OSA Continuum</i> , 2020, 3, 515.	1.8	2
43	Capillary Zone Electrophoresis Method for the Separation of Glucosidase Inhibitors in Extracts of <i>Salacia reticulata</i> , a Plant Used in Ayurvedic Treatments of Type-2 Diabetes. <i>Analytical Chemistry</i> , 2010, 82, 5323-5330.	3.2	1
44	Kinetic and Structural Characterization of Sialidases (Kdnases) from Ascomycete Fungal Pathogens. <i>ACS Chemical Biology</i> , 2021, 16, 2632-2640.	1.6	1