

Jrgen Seibel

List of Publications by Citations

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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.

100
papers

2,529
citations

27
h-index

47
g-index

119
ext. papers

2,959
ext. citations

4.9
avg, IF

5.04
L-index

#	Paper	IF	Citations
100	Structure of factor-inhibiting hypoxia-inducible factor (HIF) reveals mechanism of oxidative modification of HIF-1 alpha. <i>Journal of Biological Chemistry</i> , 2003 , 278, 1802-6	5.4	309
99	Hypoxia-inducible factor asparaginyl hydroxylase (FIH-1) catalyses hydroxylation at the beta-carbon of asparagine-803. <i>Biochemical Journal</i> , 2002 , 367, 571-5	3.8	162
98	Genome sequences of the biotechnologically important <i>Bacillus megaterium</i> strains QM B1551 and DSM319. <i>Journal of Bacteriology</i> , 2011 , 193, 4199-213	3.5	128
97	Industrial carbohydrate biotransformations. <i>Carbohydrate Research</i> , 2008 , 343, 1966-79	2.9	117
96	Synthesis of sucrose analogues and the mechanism of action of <i>Bacillus subtilis</i> fructosyltransferase (levansucrase). <i>Carbohydrate Research</i> , 2006 , 341, 2335-49	2.9	105
95	Insights into polymer versus oligosaccharide synthesis: mutagenesis and mechanistic studies of a novel levansucrase from <i>Bacillus megaterium</i> . <i>Biochemical Journal</i> , 2007 , 407, 189-98	3.8	102
94	Enzymatic degradation of (ligno)cellulose. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 10876-93	6.4	83
93	Glycosylation with activated sugars using glycosyltransferases and transglycosidases. <i>Biocatalysis and Biotransformation</i> , 2006 , 24, 311-342	2.5	78
92	Polysaccharide synthesis of the levansucrase SacB from <i>Bacillus megaterium</i> is controlled by distinct surface motifs. <i>Journal of Biological Chemistry</i> , 2011 , 286, 17593-600	5.4	75
91	Super-resolution imaging of plasma membrane glycans. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 10921-4	16.4	68
90	The fungal-specific β -glucan-binding lectin FGB1 alters cell-wall composition and suppresses glucan-triggered immunity in plants. <i>Nature Communications</i> , 2016 , 7, 13188	17.4	63
89	Synthesis of novel fructooligosaccharides by substrate and enzyme engineering. <i>Journal of Biotechnology</i> , 2008 , 138, 33-41	3.7	61
88	Engineering the glucansucrase GTFR enzyme reaction and glycosidic bond specificity: toward tailor-made polymer and oligosaccharide products. <i>Biochemistry</i> , 2008 , 47, 6678-84	3.2	54
87	The serotonin reuptake inhibitor Fluoxetine inhibits SARS-CoV-2 in human lung tissue. <i>Scientific Reports</i> , 2021 , 11, 5890	4.9	53
86	Bioorthogonal labeling with tetrazine-dyes for super-resolution microscopy. <i>Communications Biology</i> , 2019 , 2, 261	6.7	47
85	Identification of new acceptor specificities of glycosyltransferase R with the aid of substrate microarrays. <i>ChemBioChem</i> , 2006 , 7, 310-20	3.8	46
84	Biocatalytic and chemical investigations in the synthesis of sucrose analogues. <i>Tetrahedron</i> , 2005 , 61, 7081-7086	2.4	40

83	Metabolic engineering of bacteria. <i>Indian Journal of Microbiology</i> , 2011 , 51, 403-9	3.7	38
82	Tailor-made fructooligosaccharides by a combination of substrate and genetic engineering. <i>ChemBioChem</i> , 2008 , 9, 143-9	3.8	37
81	Investigations of the transfructosylation reaction by fructosyltransferase from <i>B. subtilis</i> NCIMB 11871 for the synthesis of the sucrose analogue galactosyl-fructoside. <i>Journal of Biotechnology</i> , 2005 , 116, 347-57	3.7	36
80	Export, purification, and activities of affinity tagged <i>Lactobacillus reuteri</i> levansucrase produced by <i>Bacillus megaterium</i> . <i>Applied Microbiology and Biotechnology</i> , 2007 , 74, 1062-73	5.7	32
79	A new pathway for the synthesis of oligosaccharides by the use of non-Leloir glycosyltransferases. <i>Biocatalysis and Biotransformation</i> , 2006 , 24, 157-165	2.5	31
78	Towards tailor-made oligosaccharides-chemo-enzymatic approaches by enzyme and substrate engineering. <i>Applied Microbiology and Biotechnology</i> , 2009 , 83, 209-16	5.7	30
77	The C-4 stereochemistry of leucocyanidin substrates for anthocyanidin synthase affects product selectivity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003 , 13, 3853-7	2.9	30
76	Microwave-assisted glycosylation for the synthesis of glycopeptides. <i>Carbohydrate Research</i> , 2005 , 340, 507-11	2.9	28
75	Biocompatible Azide-Alkyne "Click" Reactions for Surface Decoration of Glyco-Engineered Cells. <i>ChemBioChem</i> , 2016 , 17, 866-75	3.8	28
74	Antibacterial activity of ceramide and ceramide analogs against pathogenic <i>Neisseria</i> . <i>Scientific Reports</i> , 2017 , 7, 17627	4.9	27
73	Highly efficient chemoenzymatic synthesis of novel branched thiooligosaccharides by substrate direction with glucansucrases. <i>ChemBioChem</i> , 2007 , 8, 273-6	3.8	26
72	Synthesis and evaluation of delta-lactams (piperazines) as elastase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003 , 13, 387-9	2.9	26
71	Synthesis of the rare disaccharide nigerose by structure-based design of a phosphorylase mutant with altered regioselectivity. <i>Chemical Communications</i> , 2016 , 52, 4625-7	5.8	25
70	A close look at the structural features and reaction conditions that modulate the synthesis of low and high molecular weight fructans by levansucrases. <i>Carbohydrate Polymers</i> , 2019 , 219, 130-142	10.3	22
69	A Functionalized Sphingolipid Analogue for Studying Redistribution during Activation in Living T Cells. <i>Journal of Immunology</i> , 2016 , 196, 3951-62	5.3	22
68	Incorporation studies of clickable ceramides in Jurkat cell plasma membranes. <i>Chemical Communications</i> , 2017 , 53, 6836-6839	5.8	21
67	Tools in oligosaccharide synthesis current research and application. <i>Advances in Carbohydrate Chemistry and Biochemistry</i> , 2010 , 63, 101-38	3.7	21
66	Super-Resolution Imaging of Plasma Membrane Glycans. <i>Angewandte Chemie</i> , 2014 , 126, 11101-11104	3.6	20

65	Bioorthogonal metabolic glycoengineering of human larynx carcinoma (HEp-2) cells targeting sialic acid. <i>Beilstein Journal of Organic Chemistry</i> , 2010 , 6, 24	2.5	19
64	Metabolic glycoengineering of <i>Staphylococcus aureus</i> reduces its adherence to human T24 bladder carcinoma cells. <i>Chemical Communications</i> , 2013 , 49, 7301-3	5.8	18
63	Acid ceramidase of macrophages traps herpes simplex virus in multivesicular bodies and protects from severe disease. <i>Nature Communications</i> , 2020 , 11, 1338	17.4	17
62	Incorporation and visualization of azido-functionalized N-oleoyl serinol in Jurkat cells, mouse brain astrocytes, 3T3 fibroblasts and human brain microvascular endothelial cells. <i>Chemical Communications</i> , 2016 , 52, 8612-8614	5.8	16
61	Redesign of the Active Site of Sucrose Phosphorylase through a Clash-Induced Cascade of Loop Shifts. <i>ChemBioChem</i> , 2016 , 17, 33-6	3.8	16
60	Chemo-enzymatic synthesis and functional analysis of natural and modified glycostructures. <i>Natural Product Reports</i> , 2009 , 26, 1555-71	15.1	16
59	Fructansucrase enzymes and sucrose analogues: A new approach for the synthesis of unique fructo-oligosaccharides. <i>Biocatalysis and Biotransformation</i> , 2008 , 26, 32-41	2.5	16
58	The serotonin reuptake inhibitor Fluoxetine inhibits SARS-CoV-2		16
57	Nanoscale imaging of bacterial infections by sphingolipid expansion microscopy. <i>Nature Communications</i> , 2020 , 11, 6173	17.4	16
56	Zwitterion-Functionalized Detonation Nanodiamond with Superior Protein Repulsion and Colloidal Stability in Physiological Media. <i>Small</i> , 2019 , 15, e1901551	11	15
55	Impaired coordination of nucleophile and increased hydrophobicity in the +1 subsite shift levansucrase activity towards transfructosylation. <i>Glycobiology</i> , 2017 , 27, 755-765	5.8	15
54	Expression of Functional Human Sialyltransferases ST3Gal1 and ST6Gal1 in <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2016 , 11, e0155410	3.7	15
53	Product-oriented chemical surface modification of a levansucrase (SacB) an ene-type reaction. <i>Chemical Science</i> , 2018 , 9, 5312-5321	9.4	14
52	Isomaltooligosaccharides. <i>ACS Symposium Series</i> , 2003 , 63-75	0.4	13
51	Click reactions with functional sphingolipids. <i>Biological Chemistry</i> , 2018 , 399, 1157-1168	4.5	12
50	Exploring the sequence variability of polymerization-involved residues in the production of levan- and inulin-type fructooligosaccharides with a levansucrase. <i>Scientific Reports</i> , 2019 , 9, 7720	4.9	11
49	Mechanism-oriented redesign of an isomaltulose synthase to an isomelezitose synthase by site-directed mutagenesis. <i>ChemBioChem</i> , 2012 , 13, 149-56	3.8	11
48	Switching enzyme specificity from phosphate to resveratrol glucosylation. <i>Chemical Communications</i> , 2017 , 53, 12181-12184	5.8	10

47	A two-photon fluorescence-correlation study of lectins interacting with carbohydrate 20 nm beads. <i>ChemBioChem</i> , 2006 , 7, 268-74	3.8	10
46	Enzymatic Synthesis of Artificial Polysaccharides. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 11853-11871	8.3	10
45	Bioorthogonal Modification of Cell Derived Matrices by Metabolic Glycoengineering. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 1300-1306	5.5	9
44	An unconventional glycosyl transfer reaction: glucansucrase GTFA functions as an allosyltransferase enzyme. <i>ChemBioChem</i> , 2013 , 14, 2423-6	3.8	9
43	Tuning the Product Spectrum of a Glycoside Hydrolase Enzyme by a Combination of Site-Directed Mutagenesis and Tyrosine-Specific Chemical Modification. <i>Chemistry - A European Journal</i> , 2019 , 25, 6533-6541	4.8	9
42	Mechanistical Insights into the Bioconjugation Reaction of Triazolinediones with Tyrosine. <i>Journal of Organic Chemistry</i> , 2018 , 83, 10248-10260	4.2	8
41	Enzymatischer Abbau von (Ligno)Cellulose. <i>Angewandte Chemie</i> , 2014 , 126, 11054-11073	3.6	8
40	Biotechnological Synthesis and Transformation of Valuable Sugars in the Food and Pharmaceutical Industry. <i>Current Organic Chemistry</i> , 2014 , 18, 964-986	1.7	8
39	High-affinity carbohydrate binding by trimeric benzoboroxoles measured on carbohydrate arrays. <i>ChemBioChem</i> , 2014 , 15, 2450-7	3.8	7
38	Investigating infection processes with a workflow from organic chemistry to biophysics: the combination of metabolic glycoengineering, super-resolution fluorescence imaging and proteomics. <i>Expert Review of Proteomics</i> , 2013 , 10, 25-31	4.2	7
37	Reprogramming of host glutamine metabolism during Chlamydia trachomatis infection and its key role in peptidoglycan synthesis. <i>Nature Microbiology</i> , 2020 , 5, 1390-1402	26.6	7
36	Synthesis and application of water-soluble, photoswitchable cyanine dyes for bioorthogonal labeling of cell-surface carbohydrates. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2016 , 71, 347-354	1.7	6
35	Metabolic Glycoengineering of Cell-Derived Matrices and Cell Surfaces: A Combination of Key Principles and Step-by-Step Procedures. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 215-233	5.5	6
34	Sphingolipids: Effectors and Achilles Heals in Viral Infections?. <i>Cells</i> , 2021 , 10,	7.9	6
33	A Role of Sphingosine in the Intracellular Survival of. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020 , 10, 215	5.9	5
32	Implications of the mutation S164A on Bacillus subtilis levansucrase product specificity and insights into protein interactions acting upon levan synthesis. <i>International Journal of Biological Macromolecules</i> , 2020 , 161, 898-908	7.9	5
31	Identification of a potential allosteric site of Golgi β mannosidase II using computer-aided drug design. <i>PLoS ONE</i> , 2019 , 14, e0216132	3.7	4
30	Matrix-assisted laser desorption/ionization tandem mass spectrometry of N-glycans derivatized with isonicotinic hydrazide and its biotinylated form. <i>Rapid Communications in Mass Spectrometry</i> , 2014 , 28, 1745-56	2.2	4

29	Extending synthetic routes for oligosaccharides by enzyme, substrate and reaction engineering. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2010 , 120, 163-93	1.7	4
28	High-Yielding Water-Soluble Asymmetric Cyanine Dyes for Labeling Applications. <i>Journal of Organic Chemistry</i> , 2020 , 85, 9751-9760	4.2	4
27	Reversibility of a Point Mutation Induced Domain Shift: Expanding the Conformational Space of a Sucrose Phosphorylase. <i>Scientific Reports</i> , 2018 , 8, 10490	4.9	3
26	A Chemoenzymatic Route to a Class of Sucrose Esters. <i>European Journal of Organic Chemistry</i> , 2017 , 2017, 6335-6337	3.2	3
25	Chemo-enzymatic synthesis and in vitro cytokine profiling of tailor-made oligofructosides. <i>BMC Biotechnology</i> , 2012 , 12, 90	3.5	3
24	Structural and functional role of disulphide bonds and substrate binding residues of the human beta-galactoside alpha-2,3-sialyltransferase 1 (hST3Gal1). <i>Scientific Reports</i> , 2019 , 9, 17993	4.9	3
23	Azidosphinganine enables metabolic labeling and detection of sphingolipid synthesis. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 2203-2212	3.9	3
22	Exploring the Structural Space of the Galectin-1-Ligand Interaction. <i>ChemBioChem</i> , 2017 , 18, 1477-1481	3.8	2
21	Directed optimization of biocatalytic transglycosylation processes by the integration of genetic algorithms and fermentative approaches into a kinetic model. <i>Process Biochemistry</i> , 2009 , 44, 1103-1114	4.8	2
20	Nanoscale imaging of bacterial infections by sphingolipid expansion microscopy		2
19	A central role of glutamine in Chlamydia infection		2
18	Synthesis and Evaluation of Neoglycoconjugates Based on Adamantyl Scaffolds. <i>European Journal of Organic Chemistry</i> , 2015 , 2015, 1696-1710	3.2	1
17	Extending the Scope of GTFR Glucosylation Reactions with Tosylated Substrates for Rare Sugars Synthesis. <i>ChemBioChem</i> , 2017 , 18, 2012-2015	3.8	1
16	Vom Gen zum Produkt: Maßgeschneiderte Oligosaccharide durch Substrat-, Enzym- und genetisches Engineering. <i>Chemie-Ingenieur-Technik</i> , 2010 , 82, 141-146	0.8	1
15	Synthesis of β -lactam (2-oxopiperazine) inhibitors of elastase. <i>Journal of Chemical Research</i> , 2005 , 2005, 826-832	0.6	1
14	Metabolic Glycoengineering in hMSC-TERT as a Model for Skeletal Precursors by Using Modified Azide/Alkyne Monosaccharides. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
13	Inhibition of acid sphingomyelinase increases regulatory T cells in humans. <i>Brain Communications</i> , 2021 , 3, fcab020	4.5	1
12	Click-correlative light and electron microscopy (click-AT-CLEM) for imaging and tracking azido-functionalized sphingolipids in bacteria. <i>Scientific Reports</i> , 2021 , 11, 4300	4.9	1

- 11 Concatemeric Broccoli reduces mRNA stability and induces aggregates. *PLoS ONE*, **2021**, 16, e0244166 3.7 0
- 10 Molecular Engineering of Enzymes **2017**, 47-80
- 9 Mit Zucker gegen Bärtiges. *Nachrichten Aus Der Chemie*, **2018**, 66, 30-31 0.1
- 8 Inside Cover: Mechanism-Oriented Redesign of an Isomaltulose Synthase to an Isomelezitose Synthase by Site-Directed Mutagenesis (ChemBioChem 1/2012). *ChemBioChem*, **2012**, 13, 2-2 3.8
- 7 Galectine: SB Zukunft fB die Krebsforschung. *Chemie in Unserer Zeit*, **2013**, 47, 144-144 0.2
- 6 ZuckersB und richtig wichtig. *Nachrichten Aus Der Chemie*, **2013**, 61, 1207-1211 0.1
- 5 Cracking the Glycocode: Recent Developments in Glycomics **2010**, 239-263
- 4 Enzymatische Oligosaccharidsynthesen: vom Gen zum Produkt. *Nachrichten Aus Der Chemie*, **2006**, 54, 110-114 0.1
- 3 Detection of Functionalized Sphingolipid Analogs in Detergent-Resistant Membranes of Immune Cells. *Methods in Molecular Biology*, **2021**, 2187, 313-325 1.4
- 2 Enzymatic Oligosaccharide Synthesis1
- 1 Glyochips1