

Bernd Nidetzky

List of Publications by Year in descending order

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320
papers

9,674
citations

50566

48
h-index

97045

71
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329
all docs

329
docs citations

329
times ranked

9124
citing authors

#	ARTICLE	IF	CITATIONS
1	Precision synthesis of reducing-end thiol-modified cellulose enabled by enzyme selection. <i>Polymer Journal</i> , 2022, 54, 551-560.	1.3	6
2	Kombination einer genetisch engineerter Oxidase mit wasserstoffbrücken gebundenen organischen Gerüsten (HOFs) für hocheffiziente Biokomposite. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	3
3	Biocatalytic Production of 2- β -D-Glucosyl-glycerol for Functional Ingredient Use: Integrated Process Design and Techno-Economic Assessment. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 1246-1255.	3.2	6
4	Combining a Genetically Engineered Oxidase with Hydrogen-Bonded Organic Frameworks (HOFs) for Highly Efficient Biocomposites. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	46
5	Essential Functional Interplay of the Catalytic Groups in Acid Phosphatase. <i>ACS Catalysis</i> , 2022, 12, 3357-3370.	5.5	5
6	Immobilization of CMP-Sialic Acid Synthetase and α 2,3-Sialyltransferase for Cascade Synthesis of 3-Sialyl- β -D-Galactoside with Enzyme Reuse. <i>ChemCatChem</i> , 2022, 14, .	1.8	8
7	Engineering cascade biocatalysis in whole cells for bottom-up synthesis of cello-oligosaccharides: flux control over three enzymatic steps enables soluble production. <i>Microbial Cell Factories</i> , 2022, 21, 61.	1.9	7
8	Monitoring and control of the release of soluble O ₂ from H ₂ O ₂ inside porous enzyme carrier for O ₂ supply to an immobilized D-amino acid oxidase. <i>Biotechnology and Bioengineering</i> , 2022, , .	1.7	4
9	Hydride Transfer Mechanism of Enzymatic Sugar Nucleotide C2 Epimerization Probed with a Loose-Fit CDP-Glucose Substrate. <i>ACS Catalysis</i> , 2022, 12, 6816-6830.	5.5	4
10	Ionic liquid as dual-function catalyst and solvent for efficient synthesis of sucrose fatty acid esters. <i>Molecular Catalysis</i> , 2022, 526, 112371.	1.0	4
11	Phosphorylase-catalyzed bottom-up synthesis of short-chain soluble cello-oligosaccharides and property-tunable cellulosic materials. <i>Biotechnology Advances</i> , 2021, 51, 107633.	6.0	32
12	Mechanistic characterization of UDP-glucuronic acid 4-epimerase. <i>FEBS Journal</i> , 2021, 288, 1163-1178.	2.2	16
13	Expanding the Enzyme Repertoire for Sugar Nucleotide Epimerization: the CDP-Tyvelose 2-Epimerase from <i>Thermodesulfatator atlanticus</i> for Glucose/Mannose Interconversion. <i>Applied and Environmental Microbiology</i> , 2021, 87, .	1.4	5
14	Stereo-electronic control of reaction selectivity in short-chain dehydrogenases: Decarboxylation, epimerization, and dehydration. <i>Current Opinion in Chemical Biology</i> , 2021, 61, 43-52.	2.8	14
15	Pushing the limits: Cyclodextrin-based intensification of bioreductions. <i>Journal of Biotechnology</i> , 2021, 325, 57-64.	1.9	5
16	Optimal parameters in variable-velocity scanning luminescence lifetime microscopy. <i>Microscopy Research and Technique</i> , 2021, 84, 71-78.	1.2	1
17	Metal-Organic Framework-Based Enzyme Biocomposites. <i>Chemical Reviews</i> , 2021, 121, 1077-1129.	23.0	372
18	Glycosyltransferase Co-immobilization for Natural Product Glycosylation: Cascade Biosynthesis of the <i>C</i> -Glucoside Nothofagin with Efficient Reuse of Enzymes. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 2157-2169.	2.1	22

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19	Whole cell-based catalyst for enzymatic production of the osmolyte 2-O- β -glucosylglycerol. <i>Microbial Cell Factories</i> , 2021, 20, 79.	1.9	16
20	Editorial: Biocatalytic opportunities to harness the structural diversity of carbohydrates. <i>Current Opinion in Chemical Biology</i> , 2021, 61, A1-A3.	2.8	0
21	Reducing end thiol-modified nanocellulose: Bottom-up enzymatic synthesis and use for templated assembly of silver nanoparticles into biocidal composite material. <i>Carbohydrate Polymers</i> , 2021, 260, 117772.	5.1	14
22	Selective β -Mono-Glycosylation of a C15-Hydroxylated Metabolite of the Agricultural Herbicide Cinmethylin Using Leloir Glycosyltransferases. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 5491-5499.	2.4	4
23	Kinetic modeling of phosphorylase-catalyzed iterative β -1,4-glycosylation for degree of polymerization-controlled synthesis of soluble cello-oligosaccharides. <i>Biotechnology for Biofuels</i> , 2021, 14, 134.	6.2	5
24	Continuous process technology for glucoside production from sucrose using a whole cell-derived solid catalyst of sucrose phosphorylase. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 5383-5394.	1.7	8
25	Three-level hybrid modeling for systematic optimization of biocatalytic synthesis: β -glucosyl glycerol production by enzymatic trans-glycosylation from sucrose. <i>Biotechnology and Bioengineering</i> , 2021, 118, 4028-4040.	1.7	4
26	Leloir glycosyltransferases enabled to flow synthesis: Continuous production of the natural β -glucoside nothofagin. <i>Biotechnology and Bioengineering</i> , 2021, 118, 4402-4413.	1.7	20
27	Engineering analysis of multienzyme cascade reactions for β -sialyllactose synthesis. <i>Biotechnology and Bioengineering</i> , 2021, 118, 4290-4304.	1.7	10
28	Nanoporous gold electrodes modified with self-assembled monolayers for electrochemical control of the surface charge. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 14457-14464.	1.3	4
29	Reductive enzymatic dynamic kinetic resolution affording 115 g/L β -2-phenylpropanol. <i>BMC Biotechnology</i> , 2021, 21, 58.	1.7	2
30	Processive Enzymes Kept on a Leash: How Cellulase Activity in Multienzyme Complexes Directs Nanoscale Deconstruction of Cellulose. <i>ACS Catalysis</i> , 2021, 11, 13530-13542.	5.5	14
31	Controllable Iterative β -Glucosylation from UDP-Glucose by <i>Bacillus cereus</i> Glycosyltransferase GT1: Application for the Synthesis of Disaccharide-Modified Xenobiotics. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 14630-14642.	2.4	2
32	Three-Enzyme Phosphorylase Cascade for Integrated Production of Short-Chain Cellodextrins. <i>Biotechnology Journal</i> , 2020, 15, e1900349.	1.8	21
33	Three-Enzyme Phosphorylase Cascade Immobilized on Solid Support for Biocatalytic Synthesis of Cello-oligosaccharides. <i>ChemCatChem</i> , 2020, 12, 1350-1358.	1.8	27
34	Unexpected NADPH Hydratase Activity in the Nitrile Reductase QueF from <i>Escherichia coli</i> . <i>ChemBioChem</i> , 2020, 21, 1534-1543.	1.3	2
35	On the relationship between structure and catalytic effectiveness in solid surface-immobilized enzymes: Advances in methodology and the quest for a single-molecule perspective. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020, 1868, 140333.	1.1	38
36	Bacterial sialyltransferases and their use in biocatalytic cascades for sialo-oligosaccharide production. <i>Biotechnology Advances</i> , 2020, 44, 107613.	6.0	24

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37	Crystallographic snapshots of UDP-glucuronic acid 4-epimerase ligand binding, rotation, and reduction. <i>Journal of Biological Chemistry</i> , 2020, 295, 12461-12473.	1.6	7
38	Plasmid Design for Tunable Two-Enzyme Co-Expression Promotes Whole-Cell Production of Cellobiose. <i>Biotechnology Journal</i> , 2020, 15, e2000063.	1.8	13
39	Design of the Enzyme-Carrier Interface to Overcome the O ₂ and NADH Mass Transfer Limitations of an Immobilized Flavin Oxidase. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56027-56038.	4.0	23
40	Efficient enzyme formulation promotes Leloir glycosyltransferases for glycoside synthesis. <i>Journal of Biotechnology</i> , 2020, 322, 74-78.	1.9	8
41	Short-Chain Cello-oligosaccharides: Intensification and Scale-up of Their Enzymatic Production and Selective Growth Promotion among Probiotic Bacteria. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 8557-8567.	2.4	41
42	Reverse C-glycosidase reaction provides C-nucleotide building blocks of xenobiotic nucleic acids. <i>Nature Communications</i> , 2020, 11, 6270.	5.8	12
43	Separation behavior and microstructure of emulsified, two-phasic <i>E. coli</i> bioreaction mixtures. <i>Colloids and Interface Science Communications</i> , 2020, 35, 100248.	2.0	2
44	Process intensification for cytochrome P450 BM3-catalyzed oxygen-functionalization of dodecanoic acid. <i>Biotechnology and Bioengineering</i> , 2020, 117, 2377-2388.	1.7	17
45	A Biological Nanomachine at Work: Watching the Cellulosome Degrade Crystalline Cellulose. <i>ACS Central Science</i> , 2020, 6, 739-746.	5.3	24
46	On the donor substrate dependence of group-transfer reactions by hydrolytic enzymes: Insight from kinetic analysis of sucrose phosphorylase-catalyzed transglycosylation. <i>Biotechnology and Bioengineering</i> , 2020, 117, 2933-2943.	1.7	13
47	Removal of glycerol from enzymatically produced 2- β -D-glucosyl-glycerol by discontinuous diafiltration. <i>Separation and Purification Technology</i> , 2020, 241, 116749.	3.9	13
48	Reactive extraction of fructose for efficient separation of sucrose-derived glucosides produced by enzymatic glycosylation. <i>Green Chemistry</i> , 2020, 22, 4985-4994.	4.6	8
49	Glycosynthase reaction meets the flow: Continuous synthesis of lacto-N-triose II by engineered β -hexosaminidase immobilized on solid support. <i>Biotechnology and Bioengineering</i> , 2020, 117, 1597-1602.	1.7	33
50	Magnetically responsive horseradish peroxidase@ZIF-8 for biocatalysis. <i>Chemical Communications</i> , 2020, 56, 5775-5778.	2.2	41
51	Enzyme Immobilization in Wall-Coated Flow Microreactors. <i>Methods in Molecular Biology</i> , 2020, 2100, 243-257.	0.4	4
52	Downstream processing technologies in the biocatalytic production of oligosaccharides. <i>Biotechnology Advances</i> , 2020, 43, 107568.	6.0	53
53	Leloir glycosyltransferases of natural product C-glycosylation: structure, mechanism and specificity. <i>Biochemical Society Transactions</i> , 2020, 48, 1583-1598.	1.6	27
54	Intraparticle pH Sensing Within Immobilized Enzymes: Immobilized Yellow Fluorescent Protein as Optical Sensor for Spatiotemporal Mapping of pH Inside Porous Particles. <i>Methods in Molecular Biology</i> , 2020, 2100, 319-333.	0.4	1

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55	P450 _J : A New, Robust and Selective Fatty Acid Hydroxylase Displaying Unexpected Alkene Formation. <i>Chemistry - A European Journal</i> , 2020, 26, 15910-15921.	1.7	8
56	Pharmaceutical use of nanocellulose produced by enzymes. <i>Makedonsko Farmaceutvski Bilten</i> , 2020, 66, 125-126.	0.0	0
57	Demystifying the Flow: Biocatalytic Reaction Intensification in Microstructured Enzyme Reactors. <i>Biotechnology Journal</i> , 2019, 14, 1800244.	1.8	18
58	The influence of feedstock characteristics on enzyme production in <i>Trichoderma reesei</i> : a review on productivity, gene regulation and secretion profiles. <i>Biotechnology for Biofuels</i> , 2019, 12, 238.	6.2	68
59	The Microenvironment in Immobilized Enzymes: Methods of Characterization and Its Role in Determining Enzyme Performance. <i>Molecules</i> , 2019, 24, 3460.	1.7	48
60	Decoupling of recombinant protein production from <i>Escherichia coli</i> cell growth enhances functional expression of plant Leloir glycosyltransferases. <i>Biotechnology and Bioengineering</i> , 2019, 116, 1259-1268.	1.7	22
61	Interplay of nucleophilic catalysis with proton transfer in the nitrile reductase QueF from <i>Escherichia coli</i> . <i>Catalysis Science and Technology</i> , 2019, 9, 842-853.	2.1	3
62	Lacto-N-tetraose synthesis by wild-type and glycosynthase variants of the N-hexosaminidase from <i>Bifidobacterium bifidum</i> . <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 5661-5665.	1.5	21
63	Product solubility control in celooligosaccharide production by coupled cellobiose and celldextrin phosphorylase. <i>Biotechnology and Bioengineering</i> , 2019, 116, 2146-2155.	1.7	33
64	Glycosynthase Principle Transformed into Biocatalytic Process Technology: Lacto-N-triose II Production with Engineered <i>exo</i> -Hexosaminidase. <i>ACS Catalysis</i> , 2019, 9, 5503-5514.	5.5	43
65	A Parsimonious Mechanism of Sugar Dehydration by Human GDP-Mannose-4,6-dehydratase. <i>ACS Catalysis</i> , 2019, 9, 2962-2968.	5.5	18
66	Deciphering the enzymatic mechanism of sugar ring contraction in UDP-apiose biosynthesis. <i>Nature Catalysis</i> , 2019, 2, 1115-1123.	16.1	16
67	Adsorption and desorption of self-assembled L-cysteine monolayers on nanoporous gold monitored by in situ resistometry. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 2275-2279.	1.5	2
68	Preparative Asymmetric Synthesis of Canonical and Non-canonical Amino Acids Through Formal Enantioselective Biocatalytic Amination of Carboxylic Acids. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 1348-1358.	2.1	22
69	Process intensification for O ₂ -dependent enzymatic transformations in continuous single-phase pressurized flow. <i>Biotechnology and Bioengineering</i> , 2019, 116, 503-514.	1.7	37
70	Modeling the activity burst in the initial phase of cellulose hydrolysis by the processive cellobiohydrolase Cel7A. <i>Biotechnology and Bioengineering</i> , 2019, 116, 515-525.	1.7	6
71	Biobased, Internally pH-Sensitive Materials: Immobilized Yellow Fluorescent Protein as an Optical Sensor for Spatiotemporal Mapping of pH Inside Porous Matrices. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6858-6868.	4.0	18
72	Evidence of a sequestered imine intermediate during reduction of nitrile to amine by the nitrile reductase QueF from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2018, 293, 3720-3733.	1.6	5

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73	Biochemical Characterization and Mechanistic Analysis of the Levoglucosan Kinase from <i>Lipomyces starkeyi</i> . <i>ChemBioChem</i> , 2018, 19, 596-603.	1.3	14
74	l-Lactic acid production from glucose and xylose with engineered strains of <i>Saccharomyces cerevisiae</i> : aeration and carbon source influence yields and productivities. <i>Microbial Cell Factories</i> , 2018, 17, 59.	1.9	27
75	Humane Enzyme für die organische Synthese. <i>Angewandte Chemie</i> , 2018, 130, 13592-13610.	1.6	6
76	Understanding the silica-based sol-gel encapsulation mechanism of <i>Thermomyces lanuginosus</i> lipase: The role of polyethylenimine. <i>Molecular Catalysis</i> , 2018, 449, 106-113.	1.0	8
77	Human Enzymes for Organic Synthesis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13406-13423.	7.2	40
78	Single-Particle Studies to Advance the Characterization of Heterogeneous Biocatalysts. <i>ChemCatChem</i> , 2018, 10, 654-665.	1.8	20
79	Bio-based Functionalized Hydrocarbons from Multi-step Reaction Sequences with Bio- and Metallo-catalysts Based on the Fatty Acid Decarboxylase OleT _{JE} . <i>ChemCatChem</i> , 2018, 10, 1192-1201.	1.8	34
80	Glycosyltransferase cascades made fit for chemical production: Integrated biocatalytic process for the natural polyphenol <i>C</i> -glucoside nothofagin. <i>Biotechnology and Bioengineering</i> , 2018, 115, 545-556.	1.7	36
81	¹² C-Glucosyl Fluoride as Reverse Reaction Donor Substrate and Mechanistic Probe of Inverting Sugar Nucleotide-Dependent Glycosyltransferases. <i>ACS Catalysis</i> , 2018, 8, 9148-9153.	5.5	10
82	Leloir Glycosyltransferases as Biocatalysts for Chemical Production. <i>ACS Catalysis</i> , 2018, 8, 6283-6300.	5.5	133
83	A tailor-made, self-sufficient and recyclable monooxygenase catalyst based on coimmobilized cytochrome P450 BM3 and glucose dehydrogenase. <i>Biotechnology and Bioengineering</i> , 2018, 115, 2416-2425.	1.7	27
84	New flavanol O-glycosides in grape and wine. <i>Food Chemistry</i> , 2018, 266, 441-448.	4.2	30
85	Sequence determinants of nucleotide binding in Sucrose Synthase: improving the affinity of a bacterial Sucrose Synthase for UDP by introducing plant residues. <i>Protein Engineering, Design and Selection</i> , 2017, 30, 141-148.	1.0	8
86	Isotope Probing of the UDP-Apiose/UDP-Xylose Synthase Reaction: Evidence of a Mechanism via a Coupled Oxidation and Aldol Cleavage. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2503-2507.	7.2	13
87	Integration of whole-cell reaction and product isolation: Highly hydrophobic solvents promote in situ substrate supply and simplify extractive product isolation. <i>Journal of Biotechnology</i> , 2017, 257, 110-117.	1.9	13
88	Biocatalytic Cascade of Polyphosphate Kinase and Sucrose Synthase for Synthesis of Nucleotide-Activated Derivatives of Glucose. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 292-301.	2.1	30
89	Production of glucosyl glycerol by immobilized sucrose phosphorylase: Options for enzyme fixation on a solid support and application in microscale flow format. <i>Journal of Biotechnology</i> , 2017, 257, 131-138.	1.9	40
90	Glycosyltransferase cascades for natural product glycosylation: Use of plant instead of bacterial sucrose synthases improves the UDP-glucose recycling from sucrose and UDP. <i>Biotechnology Journal</i> , 2017, 12, 1600557.	1.8	36

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91	Walking a Fine Line with Sucrose Phosphorylase: Efficient Single-Step Biocatalytic Production of α -Ascorbic Acid 2-Glucoside from Sucrose. <i>ChemBioChem</i> , 2017, 18, 1387-1390.	1.3	19
92	Tailor-made resealable micro(bio)reactors providing easy integration of <i>in situ</i> sensors. <i>Journal of Micromechanics and Microengineering</i> , 2017, 27, 065012.	1.5	10
93	Active-Site His85 of <i>Pasteurella dagmatis</i> Sialyltransferase Facilitates Productive Sialyl Transfer and So Prevents Futile Hydrolysis of CMP-Neu5Ac. <i>ChemBioChem</i> , 2017, 18, 1544-1550.	1.3	11
94	Oriented Coimmobilization of Oxidase and Catalase on Tailor-Made Ordered Mesoporous Silica. <i>Langmuir</i> , 2017, 33, 5065-5076.	1.6	39
95	Binding pattern of intermediate UDP-4-keto-xylose to human UDP-xylose synthase: Synthesis and STD NMR of model keto-saccharides. <i>Carbohydrate Research</i> , 2017, 437, 50-58.	1.1	5
96	Single-molecule study of oxidative enzymatic deconstruction of cellulose. <i>Nature Communications</i> , 2017, 8, 894.	5.8	86
97	A Spring in Performance: Silica Nanosprings Boost Enzyme Immobilization in Microfluidic Channels. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34641-34649.	4.0	46
98	An ortho C-methylation/O-glycosylation motif on a hydroxy-coumarin scaffold, selectively installed by biocatalysis. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 7917-7924.	1.5	11
99	Reaktion von UDP-Apiose/UDP-Xylose-Synthase mit isotopenmarkierten Substraten: Hinweise auf einen Mechanismus mit gekoppelter Oxidation und Aldolspaltung. <i>Angewandte Chemie</i> , 2017, 129, 2544-2548.	1.6	0
100	Integrated process design for biocatalytic synthesis by a Leloir Glycosyltransferase: UDP-glucose production with sucrose synthase. <i>Biotechnology and Bioengineering</i> , 2017, 114, 924-928.	1.7	43
101	Multivalency Effects on the Immobilization of Sucrose Phosphorylase in Flow Microchannels and Their Use in the Development of a High-Performance Biocatalytic Microreactor. <i>ChemCatChem</i> , 2017, 9, 161-166.	1.8	35
102	Toward α -homolactic acid fermentation of glucose and xylose by engineered <i>Saccharomyces cerevisiae</i> harboring a kinetically efficient lactate dehydrogenase within <i>pdc1</i> deletion background. <i>Biotechnology and Bioengineering</i> , 2017, 114, 163-171.	1.7	16
103	<i>Saccharomyces cerevisiae</i> strain comparison in glucose-xylose fermentations on defined substrates and in high-gravity SSCF: convergence in strain performance despite differences in genetic and evolutionary engineering history. <i>Biotechnology for Biofuels</i> , 2017, 10, 205.	6.2	13
104	CorNet: Assigning function to networks of co-evolving residues by automated literature mining. <i>PLoS ONE</i> , 2017, 12, e0176427.	1.1	12
105	The micromorphology of <i>Trichoderma reesei</i> analyzed in cultivations on lactose and solid lignocellulosic substrate, and its relationship with cellulase production. <i>Biotechnology for Biofuels</i> , 2016, 9, 169.	6.2	15
106	Development of a fully integrated falling film microreactor for gas-liquid-solid biotransformation with surface immobilized O_2 -dependent enzyme. <i>Biotechnology and Bioengineering</i> , 2016, 113, 1862-1872.	1.7	25
107	Screening of recombinant glycosyltransferases reveals the broad acceptor specificity of stevia UGT-76G1. <i>Journal of Biotechnology</i> , 2016, 233, 49-55.	1.9	43
108	Let the substrate flow, not the enzyme: Practical immobilization of amino acid oxidase in a glass microreactor for effective biocatalytic conversions. <i>Biotechnology and Bioengineering</i> , 2016, 113, 2342-2349.	1.7	33

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109	Î²-Cyclodextrin Improves Solubility and Enzymatic Glucosylation of the Flavonoid Phloretin. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 486-493.	2.1	27
110	A Kinase-Independent One-Pot Multienzyme Cascade for an Expedient Synthesis of Guanosine 5'-Diphosphate-mannose. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 3809-3816.	2.1	16
111	Combining expression and process engineering for high-quality production of human sialyltransferase in <i>Pichia pastoris</i> . <i>Journal of Biotechnology</i> , 2016, 235, 54-60.	1.9	9
112	Biotechnological production of fucosylated human milk oligosaccharides: Prokaryotic fucosyltransferases and their use in biocatalytic cascades or whole cell conversion systems. <i>Journal of Biotechnology</i> , 2016, 235, 61-83.	1.9	91
113	Two N-terminally truncated variants of human Î²-galactoside Î±2,6 sialyltransferase I with distinct properties for in vitro protein glycosylation. <i>Glycobiology</i> , 2016, 26, 1097-1106.	1.3	7
114	Downstream Processing of Nucleoside Diphosphate Sugars from Sucrose Synthase Reaction Mixtures at Decreased Solvent Consumption. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 3113-3122.	2.1	17
115	Confocal Luminescence Lifetime Imaging with Variable Scan Velocity and Its Application to Oxygen Sensing. <i>Analytical Chemistry</i> , 2016, 88, 10736-10743.	3.2	11
116	Special Issue on acib, dedicated to the occasion of Prof. Dr. Helmut Schwab's 65th birthday. <i>Journal of Biotechnology</i> , 2016, 235, 1-2.	1.9	0
117	Functional characterization of the native swollenin from <i>Trichoderma reesei</i> : study of its possible role as C1 factor of enzymatic lignocellulose conversion. <i>Biotechnology for Biofuels</i> , 2016, 9, 178.	6.2	51
118	Unlocking the Potential of Leoir Glycosyltransferases for Applied Biocatalysis: Efficient Synthesis of Uridine 5'-Diphosphate-Glucose by Sucrose Synthase. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 3600-3609.	2.1	41
119	Intensifying the O ₂ -dependent heterogeneous biocatalysis: Superoxygenation of solid support from H ₂ O ₂ by a catalase tailor-made for effective immobilization. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 134, 302-309.	1.8	25
120	Direct-Write Fabrication of Cellulose Nano-Structures via Focused Electron Beam Induced Nanosynthesis. <i>Scientific Reports</i> , 2016, 6, 32451.	1.6	7
121	Kinetic Analysis and Probing with Substrate Analogues of the Reaction Pathway of the Nitrile Reductase QueF from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2016, 291, 25411-25426.	1.6	7
122	Cellular automata modeling depicts degradation of cellulosic material by a cellulase system with single-molecule resolution. <i>Biotechnology for Biofuels</i> , 2016, 9, 56.	6.2	20
123	Advanced characterization of immobilized enzymes as heterogeneous biocatalysts. <i>Catalysis Today</i> , 2016, 259, 66-80.	2.2	152
124	Enhanced Synthesis of 2-O-Î±-Glucopyranosyl-ascorbic Acid from Î±-Cyclodextrin by a Highly Disproportionating CGTase. <i>ACS Catalysis</i> , 2016, 6, 1606-1615.	5.5	25
125	Sucrose synthase: A unique glycosyltransferase for biocatalytic glycosylation process development. <i>Biotechnology Advances</i> , 2016, 34, 88-111.	6.0	141
126	Effect of pretreatment severity in continuous steam explosion on enzymatic conversion of wheat straw: Evidence from kinetic analysis of hydrolysis time courses. <i>Bioresource Technology</i> , 2016, 200, 287-296.	4.8	38

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127	Diastereoselective Synthesis of Glycosyl Phosphates by Using a Phosphorylase-Phosphatase Combination Catalyst. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15867-15871.	7.2	18
128	Interplay of catalytic subsite residues in the positioning of α -D-glucose 1-phosphate in sucrose phosphorylase. <i>Biochemistry and Biophysics Reports</i> , 2015, 2, 36-44.	0.7	2
129	Creating a Water-Soluble Resveratrol-Based Antioxidant by Site-Selective Enzymatic Glucosylation. <i>ChemBioChem</i> , 2015, 16, 1870-1874.	1.3	68
130	Speeding up the product release: a second-sphere contribution from Tyr191 to the reactivity of α -lactate oxidase revealed in crystallographic and kinetic studies of site-directed variants. <i>FEBS Journal</i> , 2015, 282, 4130-4140.	2.2	11
131	Protein freeze concentration and micro-segregation analysed in a temperature-controlled freeze container. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2015, 6, 108-111.	2.1	21
132	Tunable Semicrystalline Thin Film Cellulose Substrate for High-Resolution, <i>In-Situ</i> AFM Characterization of Enzymatic Cellulose Degradation. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27900-27909.	4.0	16
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