

Sabine L Flitsch

List of Publications by Year in Descending Order

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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.

217
papers

6,870
citations

47
h-index

71
g-index

289
ext. papers

7,743
ext. citations

7.7
avg, IF

5.87
L-index

#	Paper	IF	Citations
217	Enzymkatalysierte spße Modifizierungen: Besser spß als nie. <i>Angewandte Chemie</i> , 2021 , 133, 16962-16993	3.6	4
216	Enzymatic Late-Stage Modifications: Better Late Than Never. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16824-16855	16.4	22
215	Rapid Screening of Diverse Biotransformations for Enzyme Evolution. <i>Jacs Au</i> , 2021 , 1, 508-516		3
214	Development of Continuous Flow Systems to Access Secondary Amines Through Previously Incompatible Biocatalytic Cascades*. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 18660-18665	16.4	15
213	Development of Continuous Flow Systems to Access Secondary Amines Through Previously Incompatible Biocatalytic Cascades**. <i>Angewandte Chemie</i> , 2021 , 133, 18808-18813	3.6	3
212	Selective Inhibition of Heparan Sulphate and Not Chondroitin Sulphate Biosynthesis by a Small, Soluble Competitive Inhibitor. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
211	Biocatalysis. <i>Nature Reviews Methods Primers</i> , 2021 , 1,		57
210	Rücktitelbild: Development of Continuous Flow Systems to Access Secondary Amines Through Previously Incompatible Biocatalytic Cascades (Angew. Chem. 34/2021). <i>Angewandte Chemie</i> , 2021 , 133, 19040-19040	3.6	
209	Titelbild: Enzymkatalysierte spße Modifizierungen: Besser spß als nie (Angew. Chem. 31/2021). <i>Angewandte Chemie</i> , 2021 , 133, 16853-16853	3.6	0
208	RetroBioCat as a computer-aided synthesis planning tool for biocatalytic reactions and cascades. <i>Nature Catalysis</i> , 2021 , 4, 98-104	36.5	44
207	A promiscuous glycosyltransferase generates poly- β -1,4-glucan derivatives that facilitate mass spectrometry-based detection of cellulolytic enzymes. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 5529-5533	3.9	1
206	Enzyme Cascade Design: Retrosynthesis Approach 2021 , 7-30		1
205	Utility of Ion-Mobility Spectrometry for Deducing Branching of Multiply Charged Glycans and Glycopeptides in a High-Throughput Positive ion LC-FLR-IMS-MS Workflow. <i>Analytical Chemistry</i> , 2020 , 92, 15323-15335	7.8	13
204	Synthesis of protected 3-aminopiperidine and 3-aminoazepane derivatives using enzyme cascades. <i>Chemical Communications</i> , 2020 , 56, 7949-7952	5.8	6
203	A versatile route to edge-specific modifications to pristine graphene by electrophilic aromatic substitution. <i>Journal of Materials Science</i> , 2020 , 55, 10284-10302	4.3	3
202	Profiling Substrate Promiscuity of Wild-Type Sugar Kinases for Multi-fluorinated Monosaccharides. <i>Cell Chemical Biology</i> , 2020 , 27, 1199-1206.e5	8.2	7
201	Innentitelbild: An Enzymatic N-Acylation Step Enables the Biocatalytic Synthesis of Unnatural Sialosides (Angew. Chem. 13/2020). <i>Angewandte Chemie</i> , 2020 , 132, 5006-5006	3.6	

200	Mass spectrometry hybridized with gas-phase InfraRed spectroscopy for glycan sequencing. <i>Current Opinion in Structural Biology</i> , 2020 , 62, 121-131	8.1	13
199	Chemoenzymatic synthesis of 3-deoxy-3-fluoro-L-fucose and its enzymatic incorporation into glycoconjugates. <i>Chemical Communications</i> , 2020 , 56, 6408-6411	5.8	5
198	Biochemical characterisation of an α ,4 galactosyltransferase from <i>Neisseria weaveri</i> for the synthesis of α ,4-linked galactosides. <i>Organic and Biomolecular Chemistry</i> , 2020 , 18, 3142-3148	3.9	2
197	Natural heterogeneous catalysis with immobilised oxidase biocatalysts.. <i>RSC Advances</i> , 2020 , 10, 19501-19505	3.7	5
196	Bi-enzymatic Conversion of Cinnamic Acids to 2-Arylethylamines. <i>ChemCatChem</i> , 2020 , 12, 995-998	5.2	2
195	Application of bio-based solvents for biocatalysed synthesis of amides with <i>Pseudomonas stutzeri</i> lipase (PSL). <i>Pure and Applied Chemistry</i> , 2020 , 92, 579-586	2.1	0
194	An Enzymatic N-Acylation Step Enables the Biocatalytic Synthesis of Unnatural Sialosides. <i>Angewandte Chemie</i> , 2020 , 132, 5346-5349	3.6	1
193	An Enzymatic N-Acylation Step Enables the Biocatalytic Synthesis of Unnatural Sialosides. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 5308-5311	16.4	4
192	Enzyme promiscuity of carbohydrate active enzymes and their applications in biocatalysis. <i>Current Opinion in Structural Biology</i> , 2020 , 65, 184-192	8.1	3
191	Automated glycan assembly of type 14 capsular polysaccharide fragments.. <i>RSC Advances</i> , 2020 , 10, 23668-23674	3.7	4
190	Biocatalytic Transfer of Pseudaminic Acid (Pse5Ac7Ac) Using Promiscuous Sialyltransferases in a Chemoenzymatic Approach to Pse5Ac7Ac-Containing Glycosides. <i>ACS Catalysis</i> , 2020 , 10, 9986-9993	13.1	1
189	Biocatalytic Monoacylation of Symmetrical Diamines and Its Application to the Synthesis of Pharmaceutically Relevant Amides. <i>ACS Catalysis</i> , 2020 , 10, 10005-10009	13.1	12
188	Enzymatic Building-Block Synthesis for Solid-Phase Automated Glycan Assembly. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 22456-22459	16.4	5
187	Enzymatic Building-Block Synthesis for Solid-Phase Automated Glycan Assembly. <i>Angewandte Chemie</i> , 2020 , 132, 22642-22645	3.6	0
186	Exploiting the Disialyl Galactose Activity of α ,6-Sialyltransferase from <i>To</i> to Generate a Highly Sialylated Recombinant α -Antitrypsin. <i>Biochemistry</i> , 2020 , 59, 3123-3128	3.2	5
185	The characterisation of a galactokinase from <i>Streptomyces coelicolor</i> . <i>Carbohydrate Research</i> , 2019 , 472, 132-137	2.9	5
184	Enzymatic synthesis of N-acetyllactosamine from lactose enabled by recombinant α ,4-galactosyltransferases. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 5920-5924	3.9	9
183	Remote control with engineered enzymes. <i>Science</i> , 2019 , 364, 529	33.3	1

182	Enzymatic Synthesis of Trideuterated Sialosides. <i>Molecules</i> , 2019 , 24,	4.8	3
181	Regio- and Enantio-selective Chemo-enzymatic C-H-Lactonization of Decanoic Acid to (S)- ϵ -Decalactone. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5668-5671	16.4	35
180	Regio- and Enantio-selective Chemo-enzymatic C-H-Lactonization of Decanoic Acid to (S)- ϵ -Decalactone. <i>Angewandte Chemie</i> , 2019 , 131, 5724-5727	3.6	5
179	Eeyarestatin Compounds Selectively Enhance Sec61-Mediated Ca Leakage from the Endoplasmic Reticulum. <i>Cell Chemical Biology</i> , 2019 , 26, 571-583.e6	8.2	22
178	Advancing Solutions to the Carbohydrate Sequencing Challenge. <i>Journal of the American Chemical Society</i> , 2019 , 141, 14463-14479	16.4	55
177	Selective Oxidation of N-Glycolylneuraminic Acid Using an Engineered Galactose Oxidase Variant. <i>ACS Catalysis</i> , 2019 , 9, 8208-8212	13.1	6
176	High-throughput chemical and chemoenzymatic approaches to saccharide-coated magnetic nanoparticles for MRI. <i>Nanoscale Advances</i> , 2019 , 1, 3597-3606	5.1	5
175	Biocatalytic Oxidation in Continuous Flow for the Generation of Carbohydrate Dialdehydes. <i>ACS Catalysis</i> , 2019 , 9, 11658-11662	13.1	19
174	Cloning, expression and characterisation of P450-Hal1 (CYP116B62) from <i>Halomonas</i> sp. NCIMB 172: A self-sufficient P450 with high expression and diverse substrate scope. <i>Enzyme and Microbial Technology</i> , 2018 , 113, 1-8	3.8	14
173	Engineered Ammonia Lyases for the Production of Challenging Electron-Rich L-Phenylalanines. <i>ACS Catalysis</i> , 2018 , 8, 3129-3132	13.1	24
172	One-pot sequential enzymatic modification of synthetic glycolipids in vesicle membranes. <i>Chemical Communications</i> , 2018 , 54, 1347-1350	5.8	10
171	Applications of a highly α ,6-selective pseudosialidase. <i>Glycobiology</i> , 2018 , 28, 261-268	5.8	8
170	Panel of New Thermostable CYP116B Self-Sufficient Cytochrome P450 Monooxygenases that Catalyze C-H Activation with a Diverse Substrate Scope. <i>ChemCatChem</i> , 2018 , 10, 1042-1051	5.2	27
169	UDP-Glucose 4-Epimerase and α ,4-Galactosyltransferase from the Oyster as Valuable Biocatalysts for the Production of Galactosylated Products. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	5
168	Methods for the High Resolution Analysis of Glycoconjugates 2018 , 225-267		
167	Characterisation of CYP102A25 from <i>Bacillus marmarensis</i> and CYP102A26 from <i>Pontibacillus halophilus</i> : P450 Homologues of BM3 with Preference towards Hydroxylation of Medium-Chain Fatty Acids. <i>ChemBioChem</i> , 2018 , 19, 513-520	3.8	8
166	Characterisation of a Bacterial Galactokinase with High Activity and Broad Substrate Tolerance for Chemoenzymatic Synthesis of 6-Aminogalactose-1-Phosphate and Analogues. <i>ChemBioChem</i> , 2018 , 19, 388-394	3.8	14
165	The crystal structure of P450-TT heme-domain provides the first structural insights into the versatile class VII P450s. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 501, 846-850	3.4	10

164	The self-sufficient P450 RhF expressed in a whole cell system selectively catalyses the 5-hydroxylation of diclofenac. <i>Biotechnology Journal</i> , 2017 , 12, 1600520	5.6	22
163	Real-Time Screening of Biocatalysts in Live Bacterial Colonies. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1408-1411	16.4	38
162	Application of Biocatalysis to on-DNA Carbohydrate Library Synthesis. <i>ChemBioChem</i> , 2017 , 18, 858-863	3.8	39
161	Application of carbohydrate arrays coupled with mass spectrometry to detect activity of plant-polysaccharide degradative enzymes from the fungus <i>Aspergillus niger</i> . <i>Scientific Reports</i> , 2017 , 7, 43117	4.9	10
160	IRMPD Spectroscopy Sheds New (Infrared) Light on the Sulfate Pattern of Carbohydrates. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 2114-2120	2.8	40
159	A Bifunctional Spin Label for Ligand Recognition on Surfaces. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 9449-9453	16.4	6
158	A Bifunctional Spin Label for Ligand Recognition on Surfaces. <i>Angewandte Chemie</i> , 2017 , 129, 9577-9581	3.6	1
157	Bottom-Up Elucidation of Glycosidic Bond Stereochemistry. <i>Analytical Chemistry</i> , 2017 , 89, 4540-4549	7.8	49
156	Enzyme Cascades in Whole Cells for the Synthesis of Chiral Cyclic Amines. <i>ACS Catalysis</i> , 2017 , 7, 2920-2925	12.5	52
155	Label-Free Discovery Array Platform for the Characterization of Glycan Binding Proteins and Glycoproteins. <i>Analytical Chemistry</i> , 2017 , 89, 4444-4451	7.8	16
154	Constructing Biocatalytic Cascades: In Vitro and in Vivo Approaches to de Novo Multi-Enzyme Pathways. <i>ACS Catalysis</i> , 2017 , 7, 710-724	13.1	241
153	Anomeric memory of the glycosidic bond upon fragmentation and its consequences for carbohydrate sequencing. <i>Nature Communications</i> , 2017 , 8, 973	17.4	69
152	Adenylation Activity of Carboxylic Acid Reductases Enables the Synthesis of Amides. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14498-14501	16.4	55
151	Adenylation Activity of Carboxylic Acid Reductases Enables the Synthesis of Amides. <i>Angewandte Chemie</i> , 2017 , 129, 14690-14693	3.6	20
150	Discovery and Biochemical Characterization of a Thermostable Glucose-1-phosphate Nucleotidyltransferase from <i>Thermodesulfatator indicus</i> . <i>Protein and Peptide Letters</i> , 2017 , 24, 729-734	1.9	3
149	Development of a Solid Phase Array Assay for the Screening of Galactose Oxidase Activity and for Fast Identification of Inhibitors. <i>Protein and Peptide Letters</i> , 2017 , 24, 742-746	1.9	0
148	Synthesis of Enantiomerically Pure Ring-Substituted L-Pyridylalanines by Biocatalytic Hydroamination. <i>Organic Letters</i> , 2016 , 18, 5468-5471	6.2	17
147	Ganzzellen-Biokatalysator für stereoselektive C-H-Aminierungen. <i>Angewandte Chemie</i> , 2016 , 128, 1533-1536	3.6	17

146	Enantioselective Benzylic Hydroxylation Catalysed by P450 Monooxygenases: Characterisation of a P450cam Mutant Library and Molecular Modelling. <i>ChemBioChem</i> , 2016 , 17, 426-32	3.8	22
145	Rapid and sensitive monitoring of biocatalytic reactions using ion mobility mass spectrometry. <i>Analyst, The</i> , 2016 , 141, 2351-5	5	8
144	Whole-Cell Biocatalysts for Stereoselective C-H Amination Reactions. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 1511-3	16.4	74
143	Copper-Catalyzed Double Additions and Radical Cyclization Cascades in the Re-Engineering of the Antibacterial Pleuromutilin. <i>Chemistry - A European Journal</i> , 2016 , 22, 116-9	4.8	11
142	Innentitelbild: Ganzzellen-Biokatalysator für stereoselektive C-H-Aminierungen (Angew. Chem. 4/2016). <i>Angewandte Chemie</i> , 2016 , 128, 1234-1234	3.6	
141	Whole-cell microtiter plate screening assay for terminal hydroxylation of fatty acids by P450s. <i>Chemical Communications</i> , 2016 , 52, 6158-61	5.8	11
140	Inexpensive and fast pathogenic bacteria screening using field-effect transistors. <i>Biosensors and Bioelectronics</i> , 2016 , 85, 103-109	11.8	20
139	One-Pot Cascade Synthesis of Mono- and Disubstituted Piperidines and Pyrrolidines using Carboxylic Acid Reductase (CAR), Transaminase (TA), and Imine Reductase (IREC) Biocatalysts. <i>ACS Catalysis</i> , 2016 , 6, 3753-3759	13.1	125
138	Fabrication and Application of Isotopically Labelled Gold Arrays for Multiplexed Peptide Analysis. <i>ChemBioChem</i> , 2016 , 17, 2007-2011	3.8	
137	Biochemical characterisation of the neuraminidase pool of the human gut symbiont <i>Akkermansia muciniphila</i> . <i>Carbohydrate Research</i> , 2015 , 415, 60-5	2.9	42
136	Chemoenzymatic Synthesis of Optically Pure- and Biarylalanines through Biocatalytic Asymmetric Amination and Palladium-Catalyzed Arylation. <i>ACS Catalysis</i> , 2015 , 5, 5410-5413	13.1	56
135	Biological and biochemical properties of two <i>Xenopus laevis</i> N-acetylgalactosaminyltransferases with contrasting roles in embryogenesis. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2015 , 180, 40-7	2.3	6
134	Active site diversification of P450cam with indole generates catalysts for benzylic oxidation reactions. <i>Beilstein Journal of Organic Chemistry</i> , 2015 , 11, 1713-1720	2.5	14
133	A recycling pathway for cyanogenic glycosides evidenced by the comparative metabolic profiling in three cyanogenic plant species. <i>Biochemical Journal</i> , 2015 , 469, 375-89	3.8	79
132	Discrimination of epimeric glycans and glycopeptides using IM-MS and its potential for carbohydrate sequencing. <i>Nature Chemistry</i> , 2014 , 6, 65-74	17.6	146
131	Glycosylation characterization of human and porcine fibrinogen proteins by lectin-binding biophotonic microarray imaging. <i>Analytical Chemistry</i> , 2014 , 86, 621-8	7.8	11
130	Development of new synthetic and analytical tools in glycobiotechnology. <i>New Biotechnology</i> , 2014 , 31, S16	6.4	
129	2-Pyridylfuran: a new fluorescent tag for the analysis of carbohydrates. <i>Analytical Chemistry</i> , 2014 , 86, 5179-86	7.8	21

128	Sialylation of lactosyl lipids in membrane microdomains by <i>T. cruzi</i> trans-sialidase. <i>Organic and Biomolecular Chemistry</i> , 2014 , 12, 9272-8	3.9	11
127	Substrate promiscuity of cytochrome P450 RhF. <i>Catalysis Science and Technology</i> , 2013 , 3, 1490	5.5	40
126	Enzymatic synthesis of colorimetric substrates to determine α ,3- and α ,6-specific neuraminidase activity. <i>RSC Advances</i> , 2013 , 3, 21335	3.7	9
125	Discovery of novel human aquaporin-1 blockers. <i>ACS Chemical Biology</i> , 2013 , 8, 249-56	4.9	52
124	Enzymatic reactions on immobilised substrates. <i>Chemical Society Reviews</i> , 2013 , 42, 6378-405	58.5	66
123	Profiling glycosyltransferase activities by tritium imaging of glycan microarrays. <i>ChemBioChem</i> , 2013 , 14, 862-9	3.8	8
122	Deubiquitinases regulate the activity of caspase-1 and interleukin-1 β secretion via assembly of the inflammasome. <i>Journal of Biological Chemistry</i> , 2013 , 288, 2721-33	5.4	134
121	Enzymatischer Amin-Acyl-Austausch in Peptiden auf Gold-Oberflächen. <i>Angewandte Chemie</i> , 2012 , 124, 13191-13194	3.6	7
120	Enzymatic amine acyl exchange in peptides on gold surfaces. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 13016-8	16.4	8
119	Oxo-ester mediated native chemical ligation on microarrays: an efficient and chemoselective coupling methodology. <i>Chemical Communications</i> , 2012 , 48, 4444-6	5.8	23
118	Dual purpose S-trityl-linkers for glycoarray fabrication on both polystyrene and gold. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 8919-26	3.9	14
117	Accelerated enzymatic galactosylation of N-acetylglucosaminolipids in lipid microdomains. <i>Journal of the American Chemical Society</i> , 2012 , 134, 13010-7	16.4	38
116	Formation of carbohydrate-functionalised polystyrene and glass slides and their analysis by MALDI-TOF MS. <i>Beilstein Journal of Organic Chemistry</i> , 2012 , 8, 753-62	2.5	10
115	Regio- and stereoselective oxidation of unactivated C-H bonds with <i>Rhodococcus rhodochrous</i> . <i>Beilstein Journal of Organic Chemistry</i> , 2012 , 8, 496-500	2.5	6
114	Chemoenzymatic synthesis of O-mannosylpeptides in solution and on solid phase. <i>Journal of the American Chemical Society</i> , 2012 , 134, 4521-4	16.4	62
113	Inhibition of protein translocation at the endoplasmic reticulum promotes activation of the unfolded protein response. <i>Biochemical Journal</i> , 2012 , 442, 639-48	3.8	27
112	MALDI-ToF MS analysis of glycosyltransferase activities on gold surface arrays. <i>Methods in Molecular Biology</i> , 2012 , 808, 269-84	1.4	6
111	Cytochromes P450 as useful biocatalysts: addressing the limitations. <i>Chemical Communications</i> , 2011 , 47, 2490-501	5.8	190

110	Heavily fluorinated carbohydrates as enzyme substrates: oxidation of tetrafluorinated galactose by galactose oxidase. <i>Chemical Communications</i> , 2011 , 47, 11228-30	5.8	29
109	Biocompatible functionalisation of starch. <i>Chemical Communications</i> , 2011 , 47, 683-5	5.8	21
108	Chimeric self-sufficient P450cam-RhFRed biocatalysts with broad substrate scope. <i>Beilstein Journal of Organic Chemistry</i> , 2011 , 7, 1494-8	2.5	31
107	Eeyarestatin 1 interferes with both retrograde and anterograde intracellular trafficking pathways. <i>PLoS ONE</i> , 2011 , 6, e22713	3.7	26
106	Biochemical correlation of activity of the β -mannosidase-deficient glycosyltransferase POMGnT1 with mutations in muscle-eye-brain disease. <i>Biochemical Journal</i> , 2011 , 436, 447-55	3.8	16
105	Chemoenzymatic synthesis of sialooligosaccharides on arrays for studies of cell surface adhesion. <i>Chemical Communications</i> , 2011 , 47, 5425-7	5.8	29
104	Glycoprotein labeling using engineered variants of galactose oxidase obtained by directed evolution. <i>Journal of the American Chemical Society</i> , 2011 , 133, 8436-9	16.4	72
103	Highly site-selective stability increases by glycosylation of dihydrofolate reductase. <i>FEBS Journal</i> , 2010 , 277, 2171-9	5.7	12
102	Preparation of aminoethyl glycosides for glycoconjugation. <i>Beilstein Journal of Organic Chemistry</i> , 2010 , 6, 699-703	2.5	60
101	The effect of multivalent binding on the lateral phase separation of adhesive lipids. <i>Faraday Discussions</i> , 2010 , 145, 219-233	3.6	12
100	Enzymatic glycosylations on arrays. <i>OMICS A Journal of Integrative Biology</i> , 2010 , 14, 437-44	3.8	20
99	LICRED: a versatile drop-in vector for rapid generation of redox-self-sufficient cytochrome P450s. <i>ChemBioChem</i> , 2010 , 11, 987-94	3.8	46
98	Lipase-catalysed acylation of starch and determination of the degree of substitution by methanolysis and GC. <i>BMC Biotechnology</i> , 2010 , 10, 82	3.5	31
97	Effect of microwave radiation on enzymatic and chemical Peptide bond synthesis on solid phase. <i>International Journal of Peptides</i> , 2009 , 2009,		3
96	Eeyarestatin I inhibits Sec61-mediated protein translocation at the endoplasmic reticulum. <i>Journal of Cell Science</i> , 2009 , 122, 4393-400	5.3	74
95	In vivo anti-malarial effect of the beta-amino alcohol 1t on Plasmodium berghei. <i>Parasitology Research</i> , 2009 , 104, 1459-64	2.4	3
94	Design, synthesis and assaying of potential aquaporin inhibitors. <i>Handbook of Experimental Pharmacology</i> , 2009 , 385-402	3.2	28
93	Enzyme Cleavable Linker Units 2009 , 221-238		1

92	Engineering and improvement of the efficiency of a chimeric [P450cam-RhFRed reductase domain] enzyme. <i>Chemical Communications</i> , 2009 , 2478-80	5.8	52
91	Enzymatic synthesis of peptides on a solid support. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 665-70	3.9	11
90	Assessing the cluster glycoside effect during the binding of concanavalin A to mannosylated artificial lipid rafts. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 5245-54	3.9	35
89	Enzyme catalysis on solid surfaces. <i>Trends in Biotechnology</i> , 2008 , 26, 328-37	15.1	85
88	Kinetics of enzyme attack on substrates covalently attached to solid surfaces: influence of spacer chain length, immobilized substrate surface concentration and surface charge. <i>Langmuir</i> , 2008 , 24, 11762-9	4.9	18
87	Monoquatary ammonium derivatives inhibit growth of protozoan parasites. <i>Parasitology International</i> , 2008 , 57, 132-7	2.1	6
86	Glycoarrays--tools for determining protein-carbohydrate interactions and glycoenzyme specificity. <i>Chemical Communications</i> , 2008 , 4400-12	5.8	124
85	Surface plasmon resonance imaging for real-time, label-free analysis of protein interactions with carbohydrate microarrays. <i>Glycoconjugate Journal</i> , 2008 , 25, 69-74	3	87
84	Enzymatic glycosylation of peptide arrays on gold surfaces. <i>ChemBioChem</i> , 2008 , 9, 883-7	3.8	60
83	A versatile gold surface approach for fabrication and interrogation of glycoarrays. <i>ChemBioChem</i> , 2008 , 9, 1568-75	3.8	82
82	SPOT synthesis of peptide arrays on self-assembled monolayers and their evaluation as enzyme substrates. <i>ChemBioChem</i> , 2008 , 9, 2592-6	3.8	36
81	Microwave-assisted ring opening of epoxides: a general route to the synthesis of 1-aminopropan-2-ols with anti malaria parasite activities. <i>Journal of Medicinal Chemistry</i> , 2007 , 50, 4243-9	8.3	51
80	Real-Time Imaging of Protease Action on Substrates Covalently Immobilised to Polymer Supports. <i>Advanced Synthesis and Catalysis</i> , 2007 , 349, 1321-1326	5.6	8
79	Quaternary ammonium compounds as water channel blockers. Specificity, potency, and site of action. <i>Journal of Biological Chemistry</i> , 2006 , 281, 14207-14	5.4	106
78	Probing the substrate specificity of the catalytically self-sufficient cytochrome P450 RhF from a <i>Rhodococcus</i> sp. <i>Chemical Communications</i> , 2006 , 4492-4	5.8	31
77	Controlling protein retention on enzyme-responsive surfaces. <i>Surface and Interface Analysis</i> , 2006 , 38, 1505-1511	1.5	20
76	Synthesis of homogenous site-selectively glycosylated proteins. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 572-4	3.9	10
75	Efficient terpene hydroxylation catalysts based upon P450 enzymes derived from actinomycetes. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 2930-4	3.9	34

74	Analysis of the domain properties of the novel cytochrome P450 RhF. <i>FEBS Letters</i> , 2005 , 579, 2215-20	3.8	47
73	Enzyme-cleavable linkers for peptide and glycopeptide synthesis. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 2505-7	3.9	15
72	Optimized polymer-enzyme electrostatic interactions significantly improve penicillin G amidase efficiency in charged PEGA polymers. <i>Tetrahedron</i> , 2005 , 61, 971-976	2.4	11
71	Understanding enzyme action on immobilised substrates. <i>Current Opinion in Biotechnology</i> , 2005 , 16, 385-92	11.4	49
70	Increased thermal stability of site-selectively glycosylated dihydrofolate reductase. <i>ChemBioChem</i> , 2005 , 6, 1338-40	3.8	26
69	Synthesis of N-linked glycopeptides on solid support and their evaluation as protease substrates. <i>Tetrahedron: Asymmetry</i> , 2005 , 16, 21-24		8
68	Rapid and ultra-sensitive determination of enzyme activities using surface-enhanced resonance Raman scattering. <i>Nature Biotechnology</i> , 2004 , 22, 1133-8	44.5	166
67	Rapid identification of cytochrome P450cam variants by in vivo screening of active site libraries. <i>Tetrahedron: Asymmetry</i> , 2004 , 15, 2829-2831		12
66	Profiling primary protease specificity by peptide synthesis on a solid support. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 3138-41	16.4	24
65	Introduction of permanently charged groups into PEGA resins leads to improved biotransformations on solid support. <i>Tetrahedron</i> , 2004 , 60, 589-594	2.4	14
64	Generation of a dynamic combinatorial library using sialic acid aldolase and in situ screening against wheat germ agglutinin. <i>Tetrahedron</i> , 2004 , 60, 771-780	2.4	35
63	Synthesis and modifications of carbohydrates, using biotransformations. <i>Current Opinion in Chemical Biology</i> , 2004 , 8, 106-13	9.7	47
62	Nucleotide sequence of a portion of the camphor-degrading gene cluster from <i>Rhodococcus</i> sp. NCIMB 9784. <i>DNA Sequence</i> , 2004 , 15, 96-103		2
61	An efficient synthetic route to glycoamino acid building blocks for glycopeptide synthesis. <i>Organic Letters</i> , 2004 , 6, 4001-4	6.2	61
60	Synthesis of novel acceptor substrates for the dolichyl phosphate mannosyl transferase from yeast. <i>ChemBioChem</i> , 2003 , 4, 319-32	3.8	3
59	Organically modified xerogels as supports for solid-phase chemistry. <i>Tetrahedron Letters</i> , 2003 , 44, 6083-6085		11
58	Two-photon microscopy to spatially resolve and quantify fluorophores in single-bead chemistry. <i>ACS Combinatorial Science</i> , 2003 , 5, 215-7		19
57	Lipase-catalyzed kinetic resolution on solid-phase via a "capture and release" strategy. <i>Journal of the American Chemical Society</i> , 2003 , 125, 13952-3	16.4	24

56	A self-sufficient cytochrome p450 with a primary structural organization that includes a flavin domain and a [2Fe-2S] redox center. <i>Journal of Biological Chemistry</i> , 2003 , 278, 48914-20	5.4	84
55	Using two photon microscopy to quantify enzymatic reaction rates on polymer beads. <i>Chemical Communications</i> , 2003 , 2790-1	5.8	23
54	Improved biotransformations on charged PEGA supports. <i>Chemical Communications</i> , 2003 , 1296-7	5.8	21
53	Enzymatic optical resolution via acylation-hydrolysis on a solid support. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 621-2	3.9	19
52	Understanding protease catalysed solid phase peptide synthesis. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 1277-81	3.9	24
51	Enzymatic generation and in situ screening of a dynamic combinatorial library of sialic acid analogues. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 3405-7	16.4	28
50	P450(camr), a cytochrome P450 catalysing the stereospecific 6- endo-hydroxylation of (1 R)-(+)-camphor. <i>Applied Microbiology and Biotechnology</i> , 2002 , 59, 449-54	5.7	21
49	Identification of a new class of cytochrome P450 from a Rhodococcus sp. <i>Journal of Bacteriology</i> , 2002 , 184, 3898-908	3.5	133
48	Solid-phase synthesis of thioether-linked glycopeptide mimics for application to glycoprotein semisynthesis. <i>Organic Letters</i> , 2002 , 4, 1467-70	6.2	33
47	Protease-catalyzed peptide synthesis on solid support. <i>Journal of the American Chemical Society</i> , 2002 , 124, 10988-9	16.4	89
46	Enzymatic synthesis of beta-mannosyl phosphates on solid support. <i>Chemical Communications</i> , 2002 , 2676-7	5.8	4
45	An Asymmetric Enzyme-Catalyzed Retro-Claisen Reaction for the Desymmetrization of Cyclic Diketones. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 1111-1114	16.4	42
44	Selective in vitro glycosylation of recombinant proteins: semi-synthesis of novel homogeneous glycoforms of human erythropoietin. <i>Chemistry and Biology</i> , 2001 , 8, 133-45		82
43	The desymmetrization of bicyclic beta -diketones by an enzymatic retro-Claisen reaction. A new reaction of the crotonase superfamily. <i>Journal of Biological Chemistry</i> , 2001 , 276, 12565-72	5.4	31
42	Enzymes in Carbohydrate Chemistry: Formation of Glycosidic Linkages 2001 , 243-274		
41	An Asymmetric Enzyme-Catalyzed Retro-Claisen Reaction for the Desymmetrization of Cyclic beta-Diketones This work was supported by the BBSRC (grants to N.J.T. and S.L.F.) and the European Commission (grant to J.G.). We also thank Mr. J. Millar and Dr. D. Uhrin for assistance with NMR spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 1111-1114	16.4	4
40	Chemical and enzymatic synthesis of glycopolymers. <i>Current Opinion in Chemical Biology</i> , 2000 , 4, 619-25	9.7	51
39	The preparation of deoxy derivatives of mannose-1-phosphate and their substrate specificity towards recombinant GDP-mannose pyrophosphorylase from Salmonella enterica, group B. <i>Tetrahedron: Asymmetry</i> , 2000 , 11, 621-628		25

38	Phytanyl-pyrophosphate-linked substrate for a bacterial alpha-mannosyltransferase. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 272, 290-2	3.4	5
37	Novel mechanism of inhibition of elastase by beta-lactams is defined by two inhibitor crystal complexes. <i>Journal of Biological Chemistry</i> , 1999 , 274, 24901-5	5.4	11
36	Biohydroxylation Reactions Catalyzed by Enzymes and Whole-Cell Systems. <i>Bioorganic Chemistry</i> , 1999 , 27, 81-90	5.1	16
35	Development of recombinant, immobilised beta-1,4-mannosyltransferase for use as an efficient tool in the chemoenzymatic synthesis of N-linked oligosaccharides. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1999 , 1428, 88-98	4	16
34	A novel linker for the attachment of alcohols to solid supports. <i>Tetrahedron Letters</i> , 1998 , 39, 3819-3822		34
33	Biohydroxylations of Cbz-protected alkyl substituted piperidines by <i>Beauveria bassiana</i> ATCC 7159. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1998 , 3365-3370		16
32	Evidence that bilayer bending rigidity affects membrane protein folding. <i>Biochemistry</i> , 1997 , 36, 197-203	3.2	104
31	Slow alpha helix formation during folding of a membrane protein. <i>Biochemistry</i> , 1997 , 36, 192-6	3.2	114
30	Enzyme-catalyzed formation of glycosidic linkages. <i>Current Opinion in Structural Biology</i> , 1997 , 7, 652-608	8.1	58
29	New fluoride-labile linkers for solid-phase organic synthesis. <i>Tetrahedron Letters</i> , 1997 , 38, 8287-8290	2	28
28	COS-1 cell expression and one-step affinity protein purification and activity of epitope-tagged human erythropoietin and of site-directed mutants. <i>BBA - Proteins and Proteomics</i> , 1997 , 1340, 13-20		2
27	Development of a protecting group for sulfate esters. <i>Tetrahedron Letters</i> , 1997 , 38, 7243-7246	2	37
26	Efficient Enzymatic Synthesis of the Core Trisaccharide of N-Glycans with a Recombinant β Mannosyltransferase. <i>Angewandte Chemie International Edition in English</i> , 1997 , 36, 2354-2356		33
25	Eine effiziente enzymatische Synthese des Core-Trisaccharids von N-Glycanen mit einer rekombinanten β Mannosyltransferase. <i>Angewandte Chemie</i> , 1997 , 109, 2445-2447	3.6	6
24	The chemoenzymatic synthesis of the core trisaccharide of N-linked oligosaccharides using a recombinant beta-mannosyltransferase. <i>Carbohydrate Research</i> , 1997 , 305, 533-41	2.9	30
23	Retinal binding during folding and assembly of the membrane protein bacteriorhodopsin. <i>Biochemistry</i> , 1996 , 35, 5902-9	3.2	70
22	Aliphatic vs. aromatic C-H bond activation of phenylcyclohexane catalysed by cytochrome P450cam. <i>Chemical Communications</i> , 1996 , 357-358	5.8	21
21	Chemical and biological approaches to glycoprotein synthesis. <i>Chemistry and Biology</i> , 1996 , 3, 145-9		37

20	Intermediates in the folding of the membrane protein bacteriorhodopsin. <i>Nature Structural and Molecular Biology</i> , 1995 , 2, 139-43	17.6	100
19	Expression and mutagenesis of recombinant human and murine erythropoietins in <i>Escherichia coli</i> . <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1995 , 1261, 35-43		18
18	Regioselective sulfation of disaccharides using dibutylstannylene acetals. <i>Tetrahedron Letters</i> , 1994 , 35, 6563-6566	2	24
17	Dibutylstannylene acetals: Useful intermediates for the regioselective sulfation of glycosides.. <i>Tetrahedron: Asymmetry</i> , 1994 , 5, 2163-2178		48
16	The chemoenzymatic synthesis of neoglycolipids and lipid-linked oligosaccharides using glycosyltransferases. <i>Bioorganic and Medicinal Chemistry</i> , 1994 , 2, 1243-50	3-4	14
15	Cytochrome P-450cam monooxygenase can be redesigned to catalyse the regioselective aromatic hydroxylation of diphenylmethane. <i>Journal of the Chemical Society Chemical Communications</i> , 1994 , 2761		22
14	Selective oxidation of monosaccharide derivatives to uronic acids. <i>Tetrahedron Letters</i> , 1993 , 34, 1181-1184		193
13	Chemo-enzymatic synthesis of a lipid-linked core trisaccharide of N-linked glycoproteins. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1992 , 2087		21
12	Chemoenzymatic synthesis of a glycosphingolipid. <i>Journal of the Chemical Society Chemical Communications</i> , 1992 , 1526		8
11	A novel method for the specific glycosylation of proteins. <i>Tetrahedron Letters</i> , 1991 , 32, 6793-6796	2	74
10	Chemo-enzymatic synthesis of a β -mannosyl-containing trisaccharide. <i>Journal of the Chemical Society Chemical Communications</i> , 1991 , 382-384		12
9	Synthesis of a novel acceptor substrate for a mannosyl transferase. <i>Journal of the Chemical Society Chemical Communications</i> , 1991 , 380		5
8	Structural studies on transmembrane proteins. 1. Model study using bacteriorhodopsin mutants containing single cysteine residues. <i>Biochemistry</i> , 1989 , 28, 7800-5	3.2	48
7	Structural studies on transmembrane proteins. 2. Spin labeling of bacteriorhodopsin mutants at unique cysteines. <i>Biochemistry</i> , 1989 , 28, 7806-12	3.2	254
6	Penicillin biosynthesis: structure-reactivity profile of unsaturated substrates for isopenicillin N synthetase. <i>Journal of the Chemical Society Chemical Communications</i> , 1986 , 273-275		15
5	Penicillin biosynthesis: the origin of hydroxy groups in β -lactams derived from unsaturated substrates. <i>Journal of the Chemical Society Chemical Communications</i> , 1986 , 1305-1308		13
4	Enzymatic synthesis of a new type of penicillin. <i>Journal of the Chemical Society Chemical Communications</i> , 1986 , 975		12
3	Oxygenation of C-H and C-C Bonds1065-1108		11

2 Baeyer-Villiger Oxidations 1202-1245

12

1 Enzymes in Carbohydrate Chemistry: Formation of Glycosidic Linkages 243-274

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