

Sabine L Flitsch

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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	Structural studies on transmembrane proteins. 2. Spin labeling of bacteriorhodopsin mutants at unique cysteines. <i>Biochemistry</i> , 1989 , 28, 7806-12	3.2	254
216	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
215	Selective oxidation of monosaccharide derivatives to uronic acids. <i>Tetrahedron Letters</i> , 1993 , 34, 1181-1184	18.4	193
214	Cytochromes P450 as useful biocatalysts: addressing the limitations. <i>Chemical Communications</i> , 2011 , 47, 2490-501	5.8	190
213	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
212	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
211	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
210	Identification of a new class of cytochrome P450 from a Rhodococcus sp. <i>Journal of Bacteriology</i> , 2002 , 184, 3898-908	3.5	133
209	One-Pot Cascade Synthesis of Mono- and Disubstituted Piperidines and Pyrrolidines using Carboxylic Acid Reductase (CAR), α -Transaminase (α TA), and Imine Reductase (IRED) Biocatalysts. <i>ACS Catalysis</i> , 2016 , 6, 3753-3759	13.1	125
208	Glycoarrays--tools for determining protein-carbohydrate interactions and glycoenzyme specificity. <i>Chemical Communications</i> , 2008 , 4400-12	5.8	124
207	Slow alpha helix formation during folding of a membrane protein. <i>Biochemistry</i> , 1997 , 36, 192-6	3.2	114
206	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
205	Evidence that bilayer bending rigidity affects membrane protein folding. <i>Biochemistry</i> , 1997 , 36, 197-203	3.2	104
204	Intermediates in the folding of the membrane protein bacteriorhodopsin. <i>Nature Structural and Molecular Biology</i> , 1995 , 2, 139-43	17.6	100
203	Protease-catalyzed peptide synthesis on solid support. <i>Journal of the American Chemical Society</i> , 2002 , 124, 10988-9	16.4	89
202	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
201	Enzyme catalysis on solid surfaces. <i>Trends in Biotechnology</i> , 2008 , 26, 328-37	15.1	85

200	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
199	A versatile gold surface approach for fabrication and interrogation of glycoarrays. <i>ChemBioChem</i> , 2008 , 9, 1568-75	3.8	82
198	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
197	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
196	Eeyarestatin I inhibits Sec61-mediated protein translocation at the endoplasmic reticulum. <i>Journal of Cell Science</i> , 2009 , 122, 4393-400	5.3	74
195	A novel method for the specific glycosylation of proteins. <i>Tetrahedron Letters</i> , 1991 , 32, 6793-6796	2	74
194	Whole-Cell Biocatalysts for Stereoselective C-H Amination Reactions. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 1511-3	16.4	74
193	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
192	Retinal binding during folding and assembly of the membrane protein bacteriorhodopsin. <i>Biochemistry</i> , 1996 , 35, 5902-9	3.2	70
191	Anomeric memory of the glycosidic bond upon fragmentation and its consequences for carbohydrate sequencing. <i>Nature Communications</i> , 2017 , 8, 973	17.4	69
190	Enzymatic reactions on immobilised substrates. <i>Chemical Society Reviews</i> , 2013 , 42, 6378-405	58.5	66
189	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
188	An efficient synthetic route to glycoamino acid building blocks for glycopeptide synthesis. <i>Organic Letters</i> , 2004 , 6, 4001-4	6.2	61
187	Preparation of aminoethyl glycosides for glycoconjugation. <i>Beilstein Journal of Organic Chemistry</i> , 2010 , 6, 699-703	2.5	60
186	Enzymatic glycosylation of peptide arrays on gold surfaces. <i>ChemBioChem</i> , 2008 , 9, 883-7	3.8	60
185	Enzyme-catalyzed formation of glycosidic linkages. <i>Current Opinion in Structural Biology</i> , 1997 , 7, 652-608.1		58
184	Biocatalysis. <i>Nature Reviews Methods Primers</i> , 2021 , 1,		57
183	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

182	Advancing Solutions to the Carbohydrate Sequencing Challenge. <i>Journal of the American Chemical Society</i> , 2019 , 141, 14463-14479	16.4	55
181	Adenylation Activity of Carboxylic Acid Reductases Enables the Synthesis of Amides. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14498-14501	16.4	55
180	Enzyme Cascades in Whole Cells for the Synthesis of Chiral Cyclic Amines. <i>ACS Catalysis</i> , 2017 , 7, 2920-2925	12.1	52
179	Discovery of novel human aquaporin-1 blockers. <i>ACS Chemical Biology</i> , 2013 , 8, 249-56	4.9	52
178	Engineering and improvement of the efficiency of a chimeric [P450cam-RhFRed reductase domain] enzyme. <i>Chemical Communications</i> , 2009 , 2478-80	5.8	52
177	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
176	Chemical and enzymatic synthesis of glycopolymers. <i>Current Opinion in Chemical Biology</i> , 2000 , 4, 619-25	9.7	51
175	Bottom-Up Elucidation of Glycosidic Bond Stereochemistry. <i>Analytical Chemistry</i> , 2017 , 89, 4540-4549	7.8	49
174	Understanding enzyme action on immobilised substrates. <i>Current Opinion in Biotechnology</i> , 2005 , 16, 385-92	11.4	49
173	Dibutylstannylene acetals: Useful intermediates for the regioselective sulfation of glycosides.. <i>Tetrahedron: Asymmetry</i> , 1994 , 5, 2163-2178		48
172	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
171	Analysis of the domain properties of the novel cytochrome P450 RhF. <i>FEBS Letters</i> , 2005 , 579, 2215-20	3.8	47
170	Synthesis and modifications of carbohydrates, using biotransformations. <i>Current Opinion in Chemical Biology</i> , 2004 , 8, 106-13	9.7	47
169	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
168	RetroBioCat as a computer-aided synthesis planning tool for biocatalytic reactions and cascades. <i>Nature Catalysis</i> , 2021 , 4, 98-104	36.5	44
167	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
166	An Asymmetric Enzyme-Catalyzed Retro-Claisen Reaction for the Desymmetrization of Cyclic β -Diketones. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 1111-1114	16.4	42
165	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

164	Substrate promiscuity of cytochrome P450 RhF. <i>Catalysis Science and Technology</i> , 2013 , 3, 1490	5.5	40
163	Application of Biocatalysis to on-DNA Carbohydrate Library Synthesis. <i>ChemBioChem</i> , 2017 , 18, 858-863	3.8	39
162	Real-Time Screening of Biocatalysts in Live Bacterial Colonies. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1408-1411	16.4	38
161	Accelerated enzymatic galactosylation of N-acetylglucosaminolipids in lipid microdomains. <i>Journal of the American Chemical Society</i> , 2012 , 134, 13010-7	16.4	38
160	Development of a protecting group for sulfate esters. <i>Tetrahedron Letters</i> , 1997 , 38, 7243-7246	2	37
159	Chemical and biological approaches to glycoprotein synthesis. <i>Chemistry and Biology</i> , 1996 , 3, 145-9		37
158	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
157	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
156	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
155	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
154	A novel linker for the attachment of alcohols to solid supports. <i>Tetrahedron Letters</i> , 1998 , 39, 3819-3822		34
153	Efficient terpene hydroxylation catalysts based upon P450 enzymes derived from actinomycetes. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 2930-4	3.9	34
152	Efficient Enzymatic Synthesis of the Core Trisaccharide of N-Glycans with a Recombinant ϵ -Mannosyltransferase. <i>Angewandte Chemie International Edition in English</i> , 1997 , 36, 2354-2356		33
151	Solid-phase synthesis of thioether-linked glycopeptide mimics for application to glycoprotein semisynthesis. <i>Organic Letters</i> , 2002 , 4, 1467-70	6.2	33
150	Chimeric self-sufficient P450cam-RhFRed biocatalysts with broad substrate scope. <i>Beilstein Journal of Organic Chemistry</i> , 2011 , 7, 1494-8	2.5	31
149	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
148	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
147	The desymmetrization of bicyclic β -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

146	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
145	Heavily fluorinated carbohydrates as enzyme substrates: oxidation of tetrafluorinated galactose by galactose oxidase. <i>Chemical Communications</i> , 2011 , 47, 11228-30	5.8	29
144	Chemoenzymatic synthesis of sialooligosaccharides on arrays for studies of cell surface adhesion. <i>Chemical Communications</i> , 2011 , 47, 5425-7	5.8	29
143	Design, synthesis and assaying of potential aquaporin inhibitors. <i>Handbook of Experimental Pharmacology</i> , 2009 , 385-402	3.2	28
142	New fluoride-labile linkers for solid-phase organic synthesis. <i>Tetrahedron Letters</i> , 1997 , 38, 8287-8290	2	28
141	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
140	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
139	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
138	Eeyarestatin 1 interferes with both retrograde and anterograde intracellular trafficking pathways. <i>PLoS ONE</i> , 2011 , 6, e22713	3.7	26
137	Increased thermal stability of site-selectively glycosylated dihydrofolate reductase. <i>ChemBioChem</i> , 2005 , 6, 1338-40	3.8	26
136	The preparation of deoxy derivatives of mannose-1-phosphate and their substrate specificity towards recombinant GDP-mannose pyrophosphorylase from <i>Salmonella enterica</i> , group B. <i>Tetrahedron: Asymmetry</i> , 2000 , 11, 621-628		25
135	Engineered Ammonia Lyases for the Production of Challenging Electron-Rich L-Phenylalanines. <i>ACS Catalysis</i> , 2018 , 8, 3129-3132	13.1	24
134	Profiling primary protease specificity by peptide synthesis on a solid support. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 3138-41	16.4	24
133	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
132	Understanding protease catalysed solid phase peptide synthesis. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 1277-81	3.9	24
131	Regioselective sulfation of disaccharides using dibutylstannylene acetals. <i>Tetrahedron Letters</i> , 1994 , 35, 6563-6566	2	24
130	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
129	Using two photon microscopy to quantify enzymatic reaction rates on polymer beads. <i>Chemical Communications</i> , 2003 , 2790-1	5.8	23

128	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
127	Eyarestatin Compounds Selectively Enhance Sec61-Mediated Ca Leakage from the Endoplasmic Reticulum. <i>Cell Chemical Biology</i> , 2019 , 26, 571-583.e6	8.2	22
126	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
125	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
124	Enzymatic Late-Stage Modifications: Better Late Than Never. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16824-16855	16.4	22
123	2-Pyridylfuran: a new fluorescent tag for the analysis of carbohydrates. <i>Analytical Chemistry</i> , 2014 , 86, 5179-86	7.8	21
122	Biocompatible functionalisation of starch. <i>Chemical Communications</i> , 2011 , 47, 683-5	5.8	21
121	P450(camr), a cytochrome P450 catalysing the stereospecific 6-endo-hydroxylation of (1R)-(+)-camphor. <i>Applied Microbiology and Biotechnology</i> , 2002 , 59, 449-54	5.7	21
120	Improved biotransformations on charged PEGA supports. <i>Chemical Communications</i> , 2003 , 1296-7	5.8	21
119	Aliphatic vs. aromatic C-H bond activation of phenylcyclohexane catalysed by cytochrome P450cam. <i>Chemical Communications</i> , 1996 , 357-358	5.8	21
118	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
117	Adenylation Activity of Carboxylic Acid Reductases Enables the Synthesis of Amides. <i>Angewandte Chemie</i> , 2017 , 129, 14690-14693	3.6	20
116	Enzymatic glycosylations on arrays. <i>OMICS A Journal of Integrative Biology</i> , 2010 , 14, 437-44	3.8	20
115	Controlling protein retention on enzyme-responsive surfaces. <i>Surface and Interface Analysis</i> , 2006 , 38, 1505-1511	1.5	20
114	Inexpensive and fast pathogenic bacteria screening using field-effect transistors. <i>Biosensors and Bioelectronics</i> , 2016 , 85, 103-109	11.8	20
113	Two-photon microscopy to spatially resolve and quantify fluorophores in single-bead chemistry. <i>ACS Combinatorial Science</i> , 2003 , 5, 215-7		19
112	Enzymatic optical resolution via acylation-hydrolysis on a solid support. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 621-2	3.9	19
111	Biocatalytic Oxidation in Continuous Flow for the Generation of Carbohydrate Dialdehydes. <i>ACS Catalysis</i> , 2019 , 9, 11658-11662	13.1	19

110	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
109	Expression and mutagenesis of recombinant human and murine erythropoietins in Escherichia coli. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1995 , 1261, 35-43		18
108	Synthesis of Enantiomerically Pure Ring-Substituted L-Pyridylalanines by Biocatalytic Hydroamination. <i>Organic Letters</i> , 2016 , 18, 5468-5471	6.2	17
107	Ganzzellen-Biokatalysator für stereoselektive C-H-Aminierungen. <i>Angewandte Chemie</i> , 2016 , 128, 1533-1536	5.36	17
106	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
105	Biochemical correlation of activity of the dystroglycan-modifying glycosyltransferase POMGnT1 with mutations in muscle-eye-brain disease. <i>Biochemical Journal</i> , 2011 , 436, 447-55	3.8	16
104	Biohydroxylations of Cbz-protected alkyl substituted piperidines by Beauveria bassiana ATCC 7159. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1998 , 3365-3370		16
103	Biohydroxylation Reactions Catalyzed by Enzymes and Whole-Cell Systems. <i>Bioorganic Chemistry</i> , 1999 , 27, 81-90	5.1	16
102	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
101	Enzyme-cleavable linkers for peptide and glycopeptide synthesis. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 2505-7	3.9	15
100	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
99	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
98	Cloning, expression and characterisation of P450-Hal1 (CYP116B62) from Halomonas 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
97	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
96	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
95	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
94	The chemoenzymatic synthesis of neoglycolipids and lipid-linked oligosaccharides using glycosyltransferases. <i>Bioorganic and Medicinal Chemistry</i> , 1994 , 2, 1243-50	3.4	14
93	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

92	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
91	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
90	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
89	Highly site-selective stability increases by glycosylation of dihydrofolate reductase. <i>FEBS Journal</i> , 2010 , 277, 2171-9	5.7	12
88	The effect of multivalent binding on the lateral phase separation of adhesive lipids. <i>Faraday Discussions</i> , 2010 , 145, 219-233	3.6	12
87	Rapid identification of cytochrome P450cam variants by in vivo screening of active site libraries. <i>Tetrahedron: Asymmetry</i> , 2004 , 15, 2829-2831		12
86	Baeyer-Villiger Oxidations		12
85	Chemo-enzymatic synthesis of a β -mannosyl-containing trisaccharide. <i>Journal of the Chemical Society Chemical Communications</i> , 1991 , 382-384		12
84	Enzymatic synthesis of a new type of penicillin. <i>Journal of the Chemical Society Chemical Communications</i> , 1986 , 975		12
83	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
82	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
81	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
80	Enzymatic synthesis of peptides on a solid support. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 665-70	3.9	11
79	Oxygenation of C-H and C-C Bonds		11
78	Organically modified xerogels as supports for solid-phase chemistry. <i>Tetrahedron Letters</i> , 2003 , 44, 6083-6085		11
77	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
76	Novel mechanism of inhibition of elastase by β -lactams is defined by two inhibitor crystal complexes. <i>Journal of Biological Chemistry</i> , 1999 , 274, 24901-5	5.4	11
75	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

74	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
73	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
72	One-pot sequential enzymatic modification of synthetic glycolipids in vesicle membranes. <i>Chemical Communications</i> , 2018 , 54, 1347-1350	5.8	10
71	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
70	Synthesis of homogenous site-selectively glycosylated proteins. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 572-4	3.9	10
69	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
68	Enzymatic synthesis of N-acetylglucosamine from lactose enabled by recombinant β ,4-galactosyltransferases. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 5920-5924	3.9	9
67	Enzymatic synthesis of colorimetric substrates to determine β ,3- and β ,6-specific neuraminidase activity. <i>RSC Advances</i> , 2013 , 3, 21335	3.7	9
66	Applications of a highly β ,6-selective pseudosialidase. <i>Glycobiology</i> , 2018 , 28, 261-268	5.8	8
65	Rapid and sensitive monitoring of biocatalytic reactions using ion mobility mass spectrometry. <i>Analyst</i> , 2016 , 141, 2351-5	5	8
64	Enzymatic amine acyl exchange in peptides on gold surfaces. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 13016-8	16.4	8
63	Profiling glycosyltransferase activities by tritium imaging of glycan microarrays. <i>ChemBioChem</i> , 2013 , 14, 862-9	3.8	8
62	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
61	Synthesis of N-linked glycopeptides on solid support and their evaluation as protease substrates. <i>Tetrahedron: Asymmetry</i> , 2005 , 16, 21-24		8
60	Chemoenzymatic synthesis of a glycosphingolipid. <i>Journal of the Chemical Society Chemical Communications</i> , 1992 , 1526		8
59	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
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