

# Sabine L Flitsch

## List of Publications by Year in descending order

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232  
papers

8,628  
citations

38742

50  
h-index

60623

81  
g-index

289  
all docs

289  
docs citations

289  
times ranked

7799  
citing authors

#	ARTICLE	IF	CITATIONS
1	Constructing Biocatalytic Cascades: In Vitro and in Vivo Approaches to de Novo Multi-Enzyme Pathways. <i>ACS Catalysis</i> , 2017, 7, 710-724.	11.2	322
2	Structural studies on transmembrane proteins. 2. Spin labeling of bacteriorhodopsin mutants at unique cysteines. <i>Biochemistry</i> , 1989, 28, 7806-7812.	2.5	291
3	Biocatalysis. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	21.2	255
4	Selective oxidation of monosaccharide derivatives to uronic acids. <i>Tetrahedron Letters</i> , 1993, 34, 1181-1184.	1.4	221
5	Cytochromes P450 as useful biocatalysts: addressing the limitations. <i>Chemical Communications</i> , 2011, 47, 2490.	4.1	221
6	Rapid and ultra-sensitive determination of enzyme activities using surface-enhanced resonance Raman scattering. <i>Nature Biotechnology</i> , 2004, 22, 1133-1138.	17.5	192
7	Discrimination of epimeric glycans and glycopeptides using IM-MS and its potential for carbohydrate sequencing. <i>Nature Chemistry</i> , 2014, 6, 65-74.	13.6	171
8	One-Pot Cascade Synthesis of Mono- and Disubstituted Piperidines and Pyrrolidines using Carboxylic Acid Reductase (CAR), $\alpha$ -Transaminase ( $\alpha$ -TA), and Imine Reductase (IRED) Biocatalysts. <i>ACS Catalysis</i> , 2016, 6, 3753-3759.	11.2	171
9	Deubiquitinases Regulate the Activity of Caspase-1 and Interleukin-1 $\beta$ Secretion via Assembly of the Inflammasome. <i>Journal of Biological Chemistry</i> , 2013, 288, 2721-2733.	3.4	154
10	Identification of a New Class of Cytochrome P450 from a <i>Rhodococcus</i> sp. <i>Journal of Bacteriology</i> , 2002, 184, 3898-3908.	2.2	146
11	Glycoarrays as tools for determining protein-carbohydrate interactions and glycoenzyme specificity. <i>Chemical Communications</i> , 2008, , 4400.	4.1	131
12	RetroBioCat as a computer-aided synthesis planning tool for biocatalytic reactions and cascades. <i>Nature Catalysis</i> , 2021, 4, 98-104.	34.4	131
13	Slow $\alpha$ Helix Formation during Folding of a Membrane Protein. <i>Biochemistry</i> , 1997, 36, 192-196.	2.5	122
14	Quaternary Ammonium Compounds as Water Channel Blockers. <i>Journal of Biological Chemistry</i> , 2006, 281, 14207-14214.	3.4	120
15	Evidence That Bilayer Bending Rigidity Affects Membrane Protein Folding. <i>Biochemistry</i> , 1997, 36, 197-203.	2.5	117
16	A recycling pathway for cyanogenic glycosides evidenced by the comparative metabolic profiling in three cyanogenic plant species. <i>Biochemical Journal</i> , 2015, 469, 375-389.	3.7	109
17	Intermediates in the folding of the membrane protein bacteriorhodopsin. <i>Nature Structural and Molecular Biology</i> , 1995, 2, 139-143.	8.2	108
18	Advancing Solutions to the Carbohydrate Sequencing Challenge. <i>Journal of the American Chemical Society</i> , 2019, 141, 14463-14479.	13.7	108

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19	Protease-Catalyzed Peptide Synthesis on Solid Support. <i>Journal of the American Chemical Society</i> , 2002, 124, 10988-10989.	13.7	107
20	Glycoprotein Labeling Using Engineered Variants of Galactose Oxidase Obtained by Directed Evolution. <i>Journal of the American Chemical Society</i> , 2011, 133, 8436-8439.	13.7	105
21	Anomeric memory of the glycosidic bond upon fragmentation and its consequences for carbohydrate sequencing. <i>Nature Communications</i> , 2017, 8, 973.	12.8	103
22	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, 48914-48920.	3.4	94
23	Surface plasmon resonance imaging for real-time, label-free analysis of protein interactions with carbohydrate microarrays. <i>Glycoconjugate Journal</i> , 2008, 25, 69-74.	2.7	93
24	Enzyme catalysis on solid surfaces. <i>Trends in Biotechnology</i> , 2008, 26, 328-337.	9.3	93
25	Selective in vitro glycosylation of recombinant proteins: semi-synthesis of novel homogeneous glycoforms of human erythropoietin. <i>Chemistry and Biology</i> , 2001, 8, 133-145.	6.0	92
26	Eeyarestatin I inhibits Sec61-mediated protein translocation at the endoplasmic reticulum. <i>Journal of Cell Science</i> , 2009, 122, 4393-4400.	2.0	90
27	A Versatile Gold Surface Approach for Fabrication and Interrogation of Glycoarrays. <i>ChemBioChem</i> , 2008, 9, 1568-1575.	2.6	88
28	Whole-Cell Biocatalysts for Stereoselective C-H Amination Reactions. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1511-1513.	13.8	85
29	A novel method for the specific glycosylation of proteins. <i>Tetrahedron Letters</i> , 1991, 32, 6793-6796.	1.4	81
30	Enzymatic reactions on immobilised substrates. <i>Chemical Society Reviews</i> , 2013, 42, 6378.	38.1	79
31	Enzyme Cascades in Whole Cells for the Synthesis of Chiral Cyclic Amines. <i>ACS Catalysis</i> , 2017, 7, 2920-2925.	11.2	75
32	Enzymatic Late-Stage Modifications: Better Late Than Never. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16824-16855.	13.8	75
33	Adenylation Activity of Carboxylic Acid Reductases Enables the Synthesis of Amides. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14498-14501.	13.8	74
34	Retinal Binding during Folding and Assembly of the Membrane Protein Bacteriorhodopsin. <i>Biochemistry</i> , 1996, 35, 5902-5909.	2.5	70
35	An Efficient Synthetic Route to Glycoamino Acid Building Blocks for Glycopeptide Synthesis. <i>Organic Letters</i> , 2004, 6, 4001-4004.	4.6	68
36	Chemoenzymatic Synthesis of <i>O</i> -Mannosylpeptides in Solution and on Solid Phase. <i>Journal of the American Chemical Society</i> , 2012, 134, 4521-4524.	13.7	68

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37	Preparation of aminoethyl glycosides for glycoconjugation. Beilstein Journal of Organic Chemistry, 2010, 6, 699-703.	2.2	67
38	Chemoenzymatic Synthesis of Optically Pure- and Biarylalanines through Biocatalytic Asymmetric Amination and Palladium-Catalyzed Arylation. ACS Catalysis, 2015, 5, 5410-5413.	11.2	67
39	Enzyme-catalyzed formation of glycosidic linkages. Current Opinion in Structural Biology, 1997, 7, 652-660.	5.7	65
40	Bottom-Up Elucidation of Glycosidic Bond Stereochemistry. Analytical Chemistry, 2017, 89, 4540-4549.	6.5	64
41	Enzymatic Glycosylation of Peptide Arrays on Gold Surfaces. ChemBioChem, 2008, 9, 883-887.	2.6	63
42	Biochemical characterisation of the neuraminidase pool of the human gut symbiont Akkermansia muciniphila. Carbohydrate Research, 2015, 415, 60-65.	2.3	62
43	Application of Biocatalysis to on-DNA Carbohydrate Library Synthesis. ChemBioChem, 2017, 18, 858-863.	2.6	60
44	Discovery of Novel Human Aquaporin-1 Blockers. ACS Chemical Biology, 2013, 8, 249-256.	3.4	58
45	Understanding enzyme action on immobilised substrates. Current Opinion in Biotechnology, 2005, 16, 385-392.	6.6	57
46	Microwave-Assisted Ring Opening of Epoxides: A General Route to the Synthesis of 1-Aminopropan-2-ols with Anti Malaria Parasite Activities. Journal of Medicinal Chemistry, 2007, 50, 4243-4249.	6.4	57
47	Engineering and improvement of the efficiency of a chimeric [P450cam-RhFRed reductase domain] enzyme. Chemical Communications, 2009, , 2478.	4.1	56
48	Chemical and enzymatic synthesis of glycopolymers. Current Opinion in Chemical Biology, 2000, 4, 619-625.	6.1	55
49	LICRED: A Versatile Drop-In Vector for Rapid Generation of Redox-Self-Sufficient Cytochrome P450s. ChemBioChem, 2010, 11, 987-994.	2.6	53
50	Dibutylstannylene acetals: Useful intermediates for the regioselective sulfation of glycosides.. Tetrahedron: Asymmetry, 1994, 5, 2163-2178.	1.8	52
51	Sugars tied to the spot. Nature, 2003, 421, 219-220.	27.8	51
52	Analysis of the domain properties of the novel cytochrome P450 RhF. FEBS Letters, 2005, 579, 2215-2220.	2.8	51
53	Synthesis and modifications of carbohydrates, using biotransformations. Current Opinion in Chemical Biology, 2004, 8, 106-113.	6.1	50
54	Regio- and Enantioselective Chemoenzymatic $\gamma$ -Lactonization of Decanoic Acid to ( <i>S</i> )-Decalactone. Angewandte Chemie - International Edition, 2019, 58, 5668-5671.	13.8	50

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55	Structural studies on transmembrane proteins. 1. Model study using bacteriorhodopsin mutants containing single cysteine residues. <i>Biochemistry</i> , 1989, 28, 7800-7805.	2.5	49
56	IRMPD Spectroscopy Sheds New (Infrared) Light on the Sulfate Pattern of Carbohydrates. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2114-2120.	2.5	49
57	Real-Time Screening of Biocatalysts in Live Bacterial Colonies. <i>Journal of the American Chemical Society</i> , 2017, 139, 1408-1411.	13.7	48
58	An Asymmetric Enzyme-Catalyzed Retro-Claisen Reaction for the Desymmetrization of Cyclic <sup>1,2</sup> -Diketones. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1111-1114.	13.8	47
59	Development of a protecting group for sulfate esters. <i>Tetrahedron Letters</i> , 1997, 38, 7243-7246.	1.4	44
60	Development of Continuous Flow Systems to Access Secondary Amines Through Previously Incompatible Biocatalytic Cascades**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18660-18665.	13.8	44
61	Enzymatic Generation and In Situ Screening of a Dynamic Combinatorial Library of Sialic Acid Analogues. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 3405-3407.	13.8	43
62	Accelerated Enzymatic Galactosylation of <i>N</i> -Acetylglucosaminolipids in Lipid Microdomains. <i>Journal of the American Chemical Society</i> , 2012, 134, 13010-13017.	13.7	43
63	Eyarestatin Compounds Selectively Enhance Sec61-Mediated Ca <sup>2+</sup> Leakage from the Endoplasmic Reticulum. <i>Cell Chemical Biology</i> , 2019, 26, 571-583.e6.	5.2	42
64	Efficient Enzymatic Synthesis of the Core Trisaccharide of N-Glycans with a Recombinant <sup>1,2</sup> -Mannosyltransferase. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 2354-2356.	4.4	41
65	Substrate promiscuity of cytochrome P450 RhF. <i>Catalysis Science and Technology</i> , 2013, 3, 1490.	4.1	41
66	SPOT Synthesis of Peptide Arrays on Self-Assembled Monolayers and their Evaluation as Enzyme Substrates. <i>ChemBioChem</i> , 2008, 9, 2592-2596.	2.6	40
67	Chemical and biological approaches to glycoprotein synthesis. <i>Chemistry and Biology</i> , 1996, 3, 145-149.	6.0	39
68	The chemoenzymatic synthesis of the core trisaccharide of N-linked oligosaccharides using a recombinant <sup>1,2</sup> -mannosyltransferase. <i>Carbohydrate Research</i> , 1997, 305, 533-541.	2.3	39
69	The Desymmetrization of Bicyclic <sup>1,2</sup> -Diketones by an Enzymatic Retro-Claisen Reaction. <i>Journal of Biological Chemistry</i> , 2001, 276, 12565-12572.	3.4	38
70	Efficient terpene hydroxylation catalysts based upon P450 enzymes derived from Actinomycetes. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 2930.	2.8	38
71	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.	2.8	38
72	A novel linker for the attachment of alcohols to solid supports. <i>Tetrahedron Letters</i> , 1998, 39, 3819-3822.	1.4	37

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73	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.	3.7	37
74	Biocatalytic Oxidation in Continuous Flow for the Generation of Carbohydrate Dialdehydes. <i>ACS Catalysis</i> , 2019, 9, 11658-11662.	11.2	36
75	Solid-Phase Synthesis of Thioether-Linked Glycopeptide Mimics for Application to Glycoprotein Semisynthesis. <i>Organic Letters</i> , 2002, 4, 1467-1470.	4.6	35
76	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.	1.9	35
77	Chimeric self-sufficient P450cam-RhFRed biocatalysts with broad substrate scope. <i>Beilstein Journal of Organic Chemistry</i> , 2011, 7, 1494-1498.	2.2	34
78	Inexpensive and fast pathogenic bacteria screening using field-effect transistors. <i>Biosensors and Bioelectronics</i> , 2016, 85, 103-109.	10.1	33
79	Biocatalytic Monoacylation of Symmetrical Diamines and Its Application to the Synthesis of Pharmaceutically Relevant Amides. <i>ACS Catalysis</i> , 2020, 10, 10005-10009.	11.2	33
80	Lipase-catalysed acylation of starch and determination of the degree of substitution by methanolysis and GC. <i>BMC Biotechnology</i> , 2010, 10, 82.	3.3	32
81	Inhibition of protein translocation at the endoplasmic reticulum promotes activation of the unfolded protein response. <i>Biochemical Journal</i> , 2012, 442, 639-648.	3.7	32
82	Engineered Ammonia Lyases for the Production of Challenging Electron-Rich Phenylalanines. <i>ACS Catalysis</i> , 2018, 8, 3129-3132.	11.2	32
83	Understanding protease catalysed solid phase peptide synthesis. <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 1277-1281.	2.8	31
84	Probing the substrate specificity of the catalytically self-sufficient cytochrome P450 RhF from a <i>Rhodococcus</i> sp.. <i>Chemical Communications</i> , 2006, , 4492-4494.	4.1	31
85	Eyarestatin 1 Interferes with Both Retrograde and Anterograde Intracellular Trafficking Pathways. <i>PLoS ONE</i> , 2011, 6, e22713.	2.5	31
86	Regioselective sulfation of disaccharides using dibutylstannylene acetals. <i>Tetrahedron Letters</i> , 1994, 35, 6563-6566.	1.4	30
87	Chemoenzymatic synthesis of sialooligosaccharides on arrays for studies of cell surface adhesion. <i>Chemical Communications</i> , 2011, 47, 5425-5427.	4.1	30
88	Heavily fluorinated carbohydrates as enzyme substrates: oxidation of tetrafluorinated galactose by galactose oxidase. <i>Chemical Communications</i> , 2011, 47, 11228.	4.1	30
89	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.	6.5	30
90	New fluoride-labile linkers for solid-phase organic synthesis. <i>Tetrahedron Letters</i> , 1997, 38, 8287-8290.	1.4	29

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91	Design, Synthesis and Assaying of Potential Aquaporin Inhibitors. Handbook of Experimental Pharmacology, 2009, , 385-402.	1.8	29
92	Enantioselective Benzylic Hydroxylation Catalysed by P450 Monooxygenases: Characterisation of a P450cam Mutant Library and Molecular Modelling. ChemBioChem, 2016, 17, 426-432.	2.6	29
93	The self-sufficient P450 RhF expressed in a whole cell system selectively catalyses the 5-hydroxylation of diclofenac. Biotechnology Journal, 2017, 12, 1600520.	3.5	29
94	Chemo-enzymatic synthesis of a lipid-linked core trisaccharide of N-linked glycoproteins. Journal of the Chemical Society Perkin Transactions 1, 1992, , 2087.	0.9	28
95	Increased Thermal Stability of Site-Selectively Glycosylated Dihydrofolate Reductase. ChemBioChem, 2005, 6, 1338-1340.	2.6	28
96	The preparation of deoxy derivatives of mannose-1-phosphate and their substrate specificity towards recombinant GDP-mannose pyrophosphorylase from Salmonella enterica, group B. Tetrahedron: Asymmetry, 2000, 11, 621-628.	1.8	27
97	Using two photon microscopy to quantify enzymatic reaction rates on polymer beads. Chemical Communications, 2003, , 2790.	4.1	27
98	Cytochrome P-450cam monooxygenase can be redesigned to catalyse the regioselective aromatic hydroxylation of diphenylmethane. Journal of the Chemical Society Chemical Communications, 1994, , 2761.	2.0	25
99	Profiling Primary Protease Specificity by Peptide Synthesis on a Solid Support. Angewandte Chemie - International Edition, 2004, 43, 3138-3141.	13.8	25
100	Adenylation Activity of Carboxylic Acid Reductases Enables the Synthesis of Amides. Angewandte Chemie, 2017, 129, 14690-14693.	2.0	25
101	Lipase-Catalyzed Kinetic Resolution on Solid-Phase via a "Capture and Release" Strategy. Journal of the American Chemical Society, 2003, 125, 13952-13953.	13.7	24
102	Oxo-ester mediated native chemical ligation on microarrays: an efficient and chemoselective coupling methodology. Chemical Communications, 2012, 48, 4444.	4.1	24
103	2-Pyridylfuran: A New Fluorescent Tag for the Analysis of Carbohydrates. Analytical Chemistry, 2014, 86, 5179-5186.	6.5	24
104	Aliphatic vs. aromatic C-H bond activation of phenylcyclohexane catalysed by cytochrome P450cam. Chemical Communications, 1996, , 357-358.	4.1	23
105	Improved biotransformations on charged PEGA supports. Chemical Communications, 2003, , 1296.	4.1	23
106	P450 camr , a cytochrome P450 catalysing the stereospecific 6-endo -hydroxylation of (1 R) Tj ETQq0 0 0 rgBT /Ovgrlock 10 Tf 50 142 T	3.6	22
107	Enzymatic optical resolution via acylation-hydrolysis on a solid support. Organic and Biomolecular Chemistry, 2003, 1, 621-622.	2.8	21
108	Controlling protein retention on enzyme-responsive surfaces. Surface and Interface Analysis, 2006, 38, 1505-1511.	1.8	21

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109	Biocompatible functionalisation of starch. <i>Chemical Communications</i> , 2011, 47, 683-685.	4.1	21
110	Enzyme promiscuity of carbohydrate active enzymes and their applications in biocatalysis. <i>Current Opinion in Structural Biology</i> , 2020, 65, 184-192.	5.7	21
111	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.	2.4	20
112	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.	0.9	20
113	Two-Photon Microscopy to Spatially Resolve and Quantify Fluorophores in Single-Bead Chemistry. <i>ACS Combinatorial Science</i> , 2003, 5, 215-217.	3.3	20
114	Enzymatic Glycosylations on Arrays. <i>OMICS A Journal of Integrative Biology</i> , 2010, 14, 437-444.	2.0	20
115	Chemo-enzymatic synthesis of a $\hat{I}^2$ -mannosyl-containing trisaccharide. <i>Journal of the Chemical Society Chemical Communications</i> , 1991, , 382-384.	2.0	19
116	Biohydroxylation Reactions Catalyzed by Enzymes and Whole-Cell Systems. <i>Bioorganic Chemistry</i> , 1999, 27, 81-90.	4.1	19
117	Label-Free Discovery Array Platform for the Characterization of Glycan Binding Proteins and Glycoproteins. <i>Analytical Chemistry</i> , 2017, 89, 4444-4451.	6.5	19
118	The chemoenzymatic synthesis of neoglycolipids and lipid-linked oligosaccharides using glycosyltransferases. <i>Bioorganic and Medicinal Chemistry</i> , 1994, 2, 1243-1250.	3.0	18
119	Development of recombinant, immobilised $\hat{I}^2$ -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.	2.4	18
120	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, 11762-11769.	3.5	18
121	Biochemical correlation of activity of the $\hat{I}^2$ -dystroglycan-modifying glycosyltransferase POMGnT1 with mutations in muscle-eye-brain disease. <i>Biochemical Journal</i> , 2011, 436, 447-455.	3.7	18
122	Synthesis of Enantiomerically Pure Ring-Substituted $\langle \text{sc} \rangle \langle \text{p} \rangle \langle \text{r} \rangle$ -Pyridylalanines by Biocatalytic Hydroamination. <i>Organic Letters</i> , 2016, 18, 5468-5471.	4.6	18
123	Ganzzellen-Enzymkatalysator für stereoselektive Aminierungen. <i>Angewandte Chemie</i> , 2016, 128, 1533-1536.		18
124	Characterisation of a Bacterial Galactokinase with High Activity and Broad Substrate Tolerance for Chemoenzymatic Synthesis of $\hat{I}^2$ -Aminogalactose-1-Phosphate and Analogues. <i>ChemBioChem</i> , 2018, 19, 388-394.	2.6	18
125	Mass spectrometry hybridized with gas-phase InfraRed spectroscopy for glycan sequencing. <i>Current Opinion in Structural Biology</i> , 2020, 62, 121-131.	5.7	18
126	One-Step Biocatalytic Synthesis of Sustainable Surfactants by Selective Amide Bond Formation**. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	18



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127	Penicillin biosynthesis: structure-reactivity profile of unsaturated substrates for isopenicillin N synthetase. <i>Journal of the Chemical Society Chemical Communications</i> , 1986, , 273-275.	2.0	16
128	Selective Oxidation of <i>N</i> -Glycolylneuraminic Acid Using an Engineered Galactose Oxidase Variant. <i>ACS Catalysis</i> , 2019, 9, 8208-8212.	11.2	16
129	Natural heterogeneous catalysis with immobilised oxidase biocatalysts. <i>RSC Advances</i> , 2020, 10, 19501-19505.	3.6	16
130	Penicillin biosynthesis: the origin of hydroxy groups in $\beta$ -lactams derived from unsaturated substrates. <i>Journal of the Chemical Society Chemical Communications</i> , 1986, , 1305-1308.	2.0	15
131	Enzyme-cleavable linkers for peptide and glycopeptide synthesis. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 2505.	2.8	15
132	Active site diversification of P450cam with indole generates catalysts for benzylic oxidation reactions. <i>Beilstein Journal of Organic Chemistry</i> , 2015, 11, 1713-1720.	2.2	15
133	Copper-Catalyzed Double Additions and Radical Cyclization Cascades in the Re-Engineering of the Antibacterial Pleuromutilin. <i>Chemistry - A European Journal</i> , 2016, 22, 116-119.	3.3	15
134	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.	3.3	15
135	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.	3.2	15
136	Profiling Substrate Promiscuity of Wild-Type Sugar Kinases for Multi-fluorinated Monosaccharides. <i>Cell Chemical Biology</i> , 2020, 27, 1199-1206.e5.	5.2	15
137	Chemoenzymatic synthesis of a glycosphingolipid. <i>Journal of the Chemical Society Chemical Communications</i> , 1992, , 1526.	2.0	14
138	Introduction of permanently charged groups into PEGA resins leads to improved biotransformations on solid support. <i>Tetrahedron</i> , 2004, 60, 589-594.	1.9	14
139	Dual purpose S-trityl-linkers for glycoarray fabrication on both polystyrene and gold. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 8919.	2.8	14
140	Enzymatic synthesis of <i>N</i> -acetylglucosamine from lactose enabled by recombinant $\beta$ 1,4-galactosyltransferases. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 5920-5924.	2.8	14
141	Enzymatic synthesis of a new type of penicillin. <i>Journal of the Chemical Society Chemical Communications</i> , 1986, , 975.	2.0	13
142	Rapid identification of cytochrome P450cam variants by in vivo screening of active site libraries. <i>Tetrahedron: Asymmetry</i> , 2004, 15, 2829-2831.	1.8	13
143	Enzymatic synthesis of peptides on a solid support. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 665-670.	2.8	13
144	Sialylation of lactosyl lipids in membrane microdomains by <i>T. cruzi</i> trans-sialidase. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 9272-9278.	2.8	13

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145	Whole-cell microtiter plate screening assay for terminal hydroxylation of fatty acids by P450s. <i>Chemical Communications</i> , 2016, 52, 6158-6161.	4.1	13
146	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.	2.1	13
147	Synthesis of protected 3-aminopiperidine and 3-aminoazepane derivatives using enzyme cascades. <i>Chemical Communications</i> , 2020, 56, 7949-7952.	4.1	13
148	Rapid Screening of Diverse Biotransformations for Enzyme Evolution. <i>Jacs Au</i> , 2021, 1, 508-516.	7.9	13
149	Novel Mechanism of Inhibition of Elastase by $\beta$ -Lactams Is Defined by Two Inhibitor Crystal Complexes. <i>Journal of Biological Chemistry</i> , 1999, 274, 24901-24905.	3.4	12
150	Glycosylation with a twist. <i>Nature</i> , 2005, 437, 201-202.	27.8	12
151	Highly site-selective stability increases by glycosylation of dihydrofolate reductase. <i>FEBS Journal</i> , 2010, 277, 2171-2179.	4.7	12
152	The effect of multivalent binding on the lateral phase separation of adhesive lipids. <i>Faraday Discussions</i> , 2010, 145, 219-233.	3.2	12
153	Rapid and sensitive monitoring of biocatalytic reactions using ion mobility mass spectrometry. <i>Analyst</i> , 2016, 141, 2351-2355.	3.5	12
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