

# RÃ©gis FaurÃ©

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

966  
citations

471371

17  
h-index

454834

30  
g-index

42  
all docs

42  
docs citations

42  
times ranked

1172  
citing authors

#	ARTICLE	IF	CITATIONS
1	Glycosynthesis in a waterworld: new insight into the molecular basis of transglycosylation in retaining glycoside hydrolases. <i>Biochemical Journal</i> , 2015, 467, 17-35.	1.7	133
2	A Brief and Informationally Rich Naming System for Oligosaccharide Motifs of Heteroxylans Found in Plant Cell Walls. <i>Australian Journal of Chemistry</i> , 2009, 62, 533.	0.5	84
3	Progress and future prospects for pentose-specific biocatalysts in biorefining. <i>Process Biochemistry</i> , 2012, 47, 346-357.	1.8	70
4	Mining for hemicellulases in the fungus-growing termite <i>Pseudacanthotermes militaris</i> using functional metagenomics. <i>Biotechnology for Biofuels</i> , 2013, 6, 78.	6.2	65
5	Synthesis of a Library of Xylogluco-Oligosaccharides for Active-Site Mapping of Xyloglucan endo-Transglycosylase. <i>Journal of Organic Chemistry</i> , 2006, 71, 5151-5161.	1.7	51
6	Kinetic analysis using low-molecular mass xyloglucan oligosaccharides defines the catalytic mechanism of a <i>Populus</i> xyloglucan endotransglycosylase. <i>Biochemical Journal</i> , 2006, 395, 99-106.	1.7	47
7	Formaldehyde as a Promising C <sub>1</sub> Source: The Instrumental Role of Biocatalysis for Stereocontrolled Reactions. <i>ACS Catalysis</i> , 2019, 9, 9575-9588.	5.5	46
8	Harnessing glycoenzyme engineering for synthesis of bioactive oligosaccharides. <i>Interface Focus</i> , 2019, 9, 20180069.	1.5	37
9	Molecular Design of Non-Leloir Furanose-Transferring Enzymes from an $\alpha$ -Arabinofuranosidase: A Rationale for the Engineering of Evolved Transglycosylases. <i>ACS Catalysis</i> , 2015, 5, 4598-4611.	5.5	34
10	Engineering transglycosidase activity into a GH51 $\alpha$ -l-arabinofuranosidase. <i>New Biotechnology</i> , 2013, 30, 536-544.	2.4	29
11	Rational Enzyme Design without Structural Knowledge: A Sequence-Based Approach for Efficient Generation of Transglycosylases. <i>Chemistry - A European Journal</i> , 2021, 27, 10323-10334.	1.7	29
12	Active-site Mapping of a <i>Populus</i> Xyloglucan endo-Transglycosylase with a Library of Xylogluco-oligosaccharides*. <i>Journal of Biological Chemistry</i> , 2008, 283, 21853-21863.	1.6	26
13	Enzymatic Activity of Xyloglucan Xylosyltransferase 5. <i>Plant Physiology</i> , 2016, 171, 1893-1904.	2.3	25
14	En route to a carbohydrate-based vaccine against <i>Burkholderia cepacia</i> . <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 2704.	1.5	22
15	Glycosynthase activity of hybrid aspen xyloglucan endo-transglycosylase PttXET16-34 nucleophile mutants. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 3971.	1.5	22
16	Mutation of a pH-modulating residue in a GH51 $\alpha$ -l-arabinofuranosidase leads to a severe reduction of the secondary hydrolysis of transfuranosylation products. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 626-636.	1.1	20
17	Enhancing the chemoenzymatic synthesis of arabinosylated xylo-oligosaccharides by GH51 $\alpha$ -l-arabinofuranosidase. <i>Carbohydrate Research</i> , 2015, 401, 64-72.	1.1	19
18	Mechanism-based Labeling Defines the Free Energy Change for Formation of the Covalent Glycosyl-enzyme Intermediate in a Xyloglucan endo-Transglycosylase. <i>Journal of Biological Chemistry</i> , 2008, 283, 21864-21872.	1.6	18

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19	A Single Point Mutation Alters the Transglycosylation/Hydrolysis Partition, Significantly Enhancing the Synthetic Capability of an <i>endo</i> -Glycoceramidase. <i>ACS Catalysis</i> , 2016, 6, 8264-8275.	5.5	17
20	A 1H NMR study of the specificity of $\beta$ -l-arabinofuranosidases on natural and unnatural substrates. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 3106-3114.	1.1	16
21	Enantioselective Reductive Oligomerization of Carbon Dioxide into <i>l</i> -Erythrulose via a Chemoenzymatic Catalysis. <i>Journal of the American Chemical Society</i> , 2021, 143, 16274-16283.	6.6	16
22	Glycosynthase-Assisted Synthesis of Xylo-Gluco-Oligosaccharide Probes for $\beta$ -Xylosyltransferases. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 4313-4319.	1.2	15
23	Practical synthesis of valuable d-rhamnoside building blocks for oligosaccharide synthesis. <i>Tetrahedron Letters</i> , 2007, 48, 2385-2388.	0.7	15
24	Functional roles of H98 and W99 and $\beta$ 2 loop dynamics in the <i>endo-<math>\beta</math>-l-arabinofuranosidase from <i>Thermobacillus xylanilyticus</i>. <i>FEBS Journal</i>, 2012, 279, 3598-3611.</i>	2.2	15
25	Evolution of the feruloyl esterase MtFae1a from <i>Myceliophthora thermophila</i> towards improved catalysts for antioxidants synthesis. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 5185-5196.	1.7	13
26	Probing the determinants of the transglycosylation/hydrolysis partition in a retaining $\beta$ -l-arabinofuranosidase. <i>New Biotechnology</i> , 2021, 62, 68-78.	2.4	12
27	Selective inhibition of <i>Trypanosoma cruzi</i> GAPDH by $\beta$ -bi-substrate-analogues. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 2070.	1.5	10
28	Synthetic Derivatives of (+)- <i>epi</i> - $\beta$ -Bisabolol Are Formed by Mammalian Cytochromes P450 Expressed in a Yeast Reconstituted Pathway. <i>ACS Synthetic Biology</i> , 2020, 9, 368-380.	1.9	10
29	Polysaccharide utilization loci-driven enzyme discovery reveals BD-FAE: a bifunctional feruloyl and acetyl xylan esterase active on complex natural xylans. <i>Biotechnology for Biofuels</i> , 2021, 14, 127.	6.2	10
30	A substrate for the detection of broad specificity $\beta$ -l-arabinofuranosidases with indirect release of a chromogenic group. <i>Tetrahedron Letters</i> , 2013, 54, 3063-3066.	0.7	9
31	Design of chromogenic probes for efficient screening and evaluation of feruloyl esterase-like activities. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 126, 24-31.	1.8	7
32	A Versatile and Colorful Screening Tool for the Identification of Arabinofuranose-Acting Enzymes. <i>ChemBioChem</i> , 2012, 13, 1885-1888.	1.3	6
33	Directed evolution of the type C feruloyl esterase from <i>Fusarium oxysporum</i> FoFaeC and molecular docking analysis of its improved variants. <i>New Biotechnology</i> , 2019, 51, 14-20.	2.4	5
34	Biochemical identification of the catalytic residues of a glycoside hydrolase family 120 $\beta$ -xylosidase, involved in xylooligosaccharide metabolisation by gut bacteria. <i>FEBS Letters</i> , 2015, 589, 3098-3106.	1.3	4
35	Xylosylation as an effective means for reducing yeast growth inhibition by $\beta$ -phenylethanol. <i>Journal of Basic Microbiology</i> , 2013, 53, 792-795.	1.8	3
36	Elucidating Sequence and Structural Determinants of Carbohydrate Esterases for Complete Deacetylation of Substituted Xylans. <i>Molecules</i> , 2022, 27, 2655.	1.7	3

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37	Synthesis of Î±-l-Araf and Î²-d-Galf series furanobiosides using mutants of a GH51 Î±-l-arabinofuranosidase. <i>Bioorganic Chemistry</i> , 2021, 116, 105245.	2.0	2
38	A tripartite carbohydrate-binding module to functionalize cellulose nanocrystal. <i>Biomaterials Science</i> , 2021, 9, 7444-7455.	2.6	1
39	Regioselective chemoenzymatic syntheses of ferulate conjugates as chromogenic substrates for feruloyl esterases. <i>Beilstein Journal of Organic Chemistry</i> , 2021, 17, 325-333.	1.3	0