

# Carlos Felipe Vera Vera

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

1,380  
citations

377584

21  
h-index

371746

37  
g-index

56  
all docs

56  
docs citations

56  
times ranked

1016  
citing authors

#	ARTICLE	IF	CITATIONS
1	Trends in lactose-derived bioactives: synthesis and purification. <i>Systems Microbiology and Biomanufacturing</i> , 2022, 2, 393-412.	1.5	9
2	Immobilization of <i>Aspergillus oryzae</i> $\beta$ -galactosidase in cation functionalized agarose matrix and its application in the synthesis of lactulose. <i>International Journal of Biological Macromolecules</i> , 2021, 167, 1564-1574.	3.6	15
3	Enzymatic production of prebiotic oligosaccharides. <i>Current Opinion in Food Science</i> , 2021, 37, 160-170.	4.1	40
4	Effect of product partition on the synthesis of butyl- $\beta$ -D-galactoside from <i>Aspergillus oryzae</i> . <i>Bioresource Technology</i> , 2021, 340, 125697.	4.8	2
5	Enzymatic production of lactulose by fed-batch and repeated fed-batch reactor. <i>Bioresource Technology</i> , 2021, 341, 125769.	4.8	14
6	Conventional and non-conventional applications of $\beta$ -galactosidases. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020, 1868, 140271.	1.1	62
7	Improvements in the production of <i>Aspergillus oryzae</i> $\beta$ -galactosidase crosslinked aggregates and their use in repeated-batch synthesis of lactulose. <i>International Journal of Biological Macromolecules</i> , 2020, 142, 452-462.	3.6	15
8	Improvement in the yield and selectivity of lactulose synthesis with <i>Bacillus circulans</i> $\beta$ -galactosidase. <i>LWT - Food Science and Technology</i> , 2020, 118, 108746.	2.5	15
9	Synthesis of Butyl- $\beta$ -D-Galactoside in the Ternary System: Acetone/1-Butanol/Aqueous Solution. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 859.	2.0	7
10	Synthesis of Lactulose in Continuous Stirred Tank Reactor With $\beta$ -Galactosidase of <i>Aspergillus oryzae</i> Immobilized in Monofunctional Glyoxyl Agarose Support. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 699.	2.0	11
11	Comparison of batch and repeated batch operation of lactulose synthesis with cross-linked aggregates of <i>Bacillus circulans</i> $\beta$ -galactosidase. <i>Process Biochemistry</i> , 2020, 94, 224-234.	1.8	8
12	$\beta$ -Galactosidase from <i>Exiguobacterium acetylicum</i> : Cloning, expression, purification and characterization. <i>Bioresource Technology</i> , 2019, 277, 211-215.	4.8	19
13	Continuous enzymatic synthesis of lactulose in packed-bed reactor with immobilized <i>Aspergillus oryzae</i> $\beta$ -galactosidase. <i>Bioresource Technology</i> , 2019, 278, 296-302.	4.8	35
14	Selective bioconversion with yeast for the purification of raw lactulose and transgalactosylated oligosaccharides. <i>International Dairy Journal</i> , 2018, 81, 131-137.	1.5	7
15	Effect of the type of immobilization of $\beta$ -galactosidase on the yield and selectivity of synthesis of transgalactosylated oligosaccharides. <i>Biocatalysis and Agricultural Biotechnology</i> , 2018, 16, 353-363.	1.5	23
16	Co-immobilized $\beta$ -galactosidase and <i>Saccharomyces cerevisiae</i> cells for the simultaneous synthesis and purification of galacto-oligosaccharides. <i>Enzyme and Microbial Technology</i> , 2018, 118, 102-108.	1.6	15
17	Effect of particle size and enzyme load on the simultaneous reactions of lactose hydrolysis and transgalactosylation with glyoxyl-agarose immobilized $\beta$ -galactosidase from <i>Aspergillus oryzae</i> . <i>Process Biochemistry</i> , 2018, 73, 56-64.	1.8	19
18	Chapter 16. Technical Biocatalysis. <i>RSC Catalysis Series</i> , 2018, , 473-515.	0.1	2

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19	Synthesis of lactulose in batch and repeated-batch operation with immobilized $\beta$ -galactosidase in different agarose functionalized supports. <i>Bioresource Technology</i> , 2017, 230, 56-66.	4.8	27
20	Fed-batch operation for the synthesis of lactulose with $\beta$ -galactosidase of <i>Aspergillus oryzae</i> . <i>Bioresource Technology</i> , 2017, 237, 126-134.	4.8	11
21	Immobilization of <i>Aspergillus oryzae</i> $\beta$ -galactosidase in an agarose matrix functionalized by four different methods and application to the synthesis of lactulose. <i>Bioresource Technology</i> , 2017, 232, 53-63.	4.8	41
22	Synthesis of butyl- $\beta$ -d-galactoside with commercial $\beta$ -galactosidases. <i>Food and Bioproducts Processing</i> , 2017, 103, 66-75.	1.8	11
23	Synthesis of propyl- $\beta$ -d-galactoside with free and immobilized $\beta$ -galactosidase from <i>Aspergillus oryzae</i> . <i>Process Biochemistry</i> , 2017, 53, 162-171.	1.8	14
24	Optimization of reaction conditions and the donor substrate in the synthesis of hexyl- $\beta$ -d-galactoside. <i>Process Biochemistry</i> , 2017, 58, 128-136.	1.8	11
25	Optimization of synthesis of propyl and butyl $\beta$ -galactosides with commercial $\beta$ -galactosidases. <i>New Biotechnology</i> , 2016, 33, S101.	2.4	0
26	Performance of an ultrafiltration membrane bioreactor (UF-MBR) as a processing strategy for the synthesis of galacto-oligosaccharides at high substrate concentrations.. <i>Journal of Biotechnology</i> , 2016, 223, 26-35.	1.9	25
27	Simultaneous synthesis and purification (SSP) of galacto-oligosaccharides in batch operation. <i>LWT - Food Science and Technology</i> , 2016, 72, 81-89.	2.5	16
28	Lactose-Derived Nondigestible Oligosaccharides and Other High Added-Value Products. , 2016, , 87-110.		5
29	Enzymatic Production of Galacto-Oligosaccharides. , 2016, , 111-189.		4
30	Technical and Economic Analysis of Industrial Production of Lactose-Derived Prebiotics With Focus on Galacto-Oligosaccharides. , 2016, , 261-284.		7
31	Synthesis and purification of galacto-oligosaccharides: state of the art. <i>World Journal of Microbiology and Biotechnology</i> , 2016, 32, 197.	1.7	104
32	Assessment of the fouling mechanisms of an ultrafiltration membrane bioreactor during synthesis of galacto-oligosaccharides: Effect of the operational variables. <i>Desalination</i> , 2016, 393, 79-89.	4.0	27
33	Transgalactosylation and hydrolytic activities of commercial preparations of $\beta$ -galactosidase for the synthesis of prebiotic carbohydrates. <i>Enzyme and Microbial Technology</i> , 2015, 70, 9-17.	1.6	72
34	Simultaneous synthesis of mixtures of lactulose and galacto-oligosaccharides and their selective fermentation. <i>Journal of Biotechnology</i> , 2015, 209, 31-40.	1.9	21
35	Repeated-batch operation for the synthesis of lactulose with $\beta$ -galactosidase immobilized by aggregation and crosslinking. <i>Bioresource Technology</i> , 2015, 190, 122-131.	4.8	48
36	Fed-batch synthesis of galacto-oligosaccharides with <i>Aspergillus oryzae</i> $\beta$ -galactosidase using optimal control strategy. <i>Biotechnology Progress</i> , 2014, 30, 59-67.	1.3	27

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37	Purification of highly concentrated galacto-oligosaccharide preparations by selective fermentation with yeasts. <i>International Dairy Journal</i> , 2014, 39, 78-88.	1.5	41
38	Optimisation of synthesis of oligosaccharides derived from lactulose (fructosyl-galacto-oligosaccharides) with $\beta$ -galactosidases of different origin. <i>Food Chemistry</i> , 2013, 138, 2225-2232.	4.2	33
39	Use of whey permeate containing in situ synthesised galacto-oligosaccharides for the growth and preservation of <i>Lactobacillus plantarum</i> . <i>Journal of Dairy Research</i> , 2013, 80, 374-381.	0.7	39
40	Enzyme Reactor Design and Operation under Mass-Transfer Limitations. , 2013, , 181-202.		1
41	Mathematical Methods. , 2013, , 277-310.		0
42	Synthesis of galacto-oligosaccharides by $\beta$ -galactosidase from <i>Aspergillus oryzae</i> using partially dissolved and supersaturated solution of lactose. <i>Enzyme and Microbial Technology</i> , 2012, 50, 188-194.	1.6	131
43	Influence of reaction conditions on the selectivity of the synthesis of lactulose with microbial $\beta$ -galactosidases. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011, 72, 206-212.	1.8	84
44	A pseudo steady-state model for galacto-oligosaccharides synthesis with $\beta$ -galactosidase from <i>Aspergillus oryzae</i> . <i>Biotechnology and Bioengineering</i> , 2011, 108, 2270-2279.	1.7	45
45	Determination of the transgalactosylation activity of <i>Aspergillus oryzae</i> $\beta$ -galactosidase: effect of pH, temperature, and galactose and glucose concentrations. <i>Carbohydrate Research</i> , 2011, 346, 745-752.	1.1	102
46	Synthesis of galacto-oligosaccharides at very high lactose concentrations with immobilized $\beta$ -galactosidases from <i>Aspergillus oryzae</i> . <i>Process Biochemistry</i> , 2011, 46, 245-252.	1.8	107