

Donatella Cimini

List of Publications by Citations

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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.

43
papers

839
citations

17
h-index

28
g-index

52
ext. papers

994
ext. citations

5.1
avg, IF

4.02
L-index

#	Paper	IF	Citations
43	Industrial systems biology of <i>Saccharomyces cerevisiae</i> enables novel succinic acid cell factory. <i>PLoS ONE</i> , 2013 , 8, e54144	3.7	125
42	Production of chondroitin sulfate and chondroitin. <i>Applied Microbiology and Biotechnology</i> , 2010 , 87, 1209-20	5.7	94
41	Production of capsular polysaccharide from <i>Escherichia coli</i> K4 for biotechnological applications. <i>Applied Microbiology and Biotechnology</i> , 2010 , 85, 1779-87	5.7	51
40	<i>Lactobacillus crispatus</i> L1: high cell density cultivation and exopolysaccharide structure characterization to highlight potentially beneficial effects against vaginal pathogens. <i>BMC Microbiology</i> , 2014 , 14, 137	4.5	49
39	Production of succinic acid from <i>Basfia succiniciproducens</i> up to the pilot scale from <i>Arundo donax</i> hydrolysate. <i>Bioresource Technology</i> , 2016 , 222, 355-360	11	40
38	High cell density cultivation of <i>Escherichia coli</i> K4 in a microfiltration bioreactor: a step towards improvement of chondroitin precursor production. <i>Microbial Cell Factories</i> , 2011 , 10, 10	6.4	38
37	Bio-Based Succinate Production from <i>Arundo donax</i> Hydrolysate with the New Natural Succinic Acid-Producing Strain <i>Basfia succiniciproducens</i> BPP7. <i>Bioenergy Research</i> , 2017 , 10, 488-498	3.1	36
36	Homologous overexpression of RfaH in <i>E. coli</i> K4 improves the production of chondroitin-like capsular polysaccharide. <i>Microbial Cell Factories</i> , 2013 , 12, 46	6.4	34
35	Production of glucuronic acid-based polysaccharides by microbial fermentation for biomedical applications. <i>Biotechnology Journal</i> , 2012 , 7, 237-50	5.6	30
34	Isolation of an <i>Escherichia coli</i> K4 kfoC mutant over-producing capsular chondroitin. <i>Microbial Cell Factories</i> , 2010 , 9, 34	6.4	30
33	Isolation of new cellulase and xylanase producing strains and application to lignocellulosic biomasses hydrolysis and succinic acid production. <i>Bioresource Technology</i> , 2018 , 259, 325-333	11	28
32	Application of a 22L scale membrane bioreactor and cross-flow ultrafiltration to obtain purified chondroitin. <i>Biotechnology Progress</i> , 2012 , 28, 1012-8	2.8	26
31	High-performance CE of <i>Escherichia coli</i> K4 cell surface polysaccharides. <i>Electrophoresis</i> , 2009 , 30, 3877-83	3.6	24
30	Improved fructosylated chondroitin production by kfoC overexpression in <i>E. coli</i> K4. <i>Journal of Biotechnology</i> , 2010 , 150, 324-31	3.7	23
29	Global transcriptional response of <i>Saccharomyces cerevisiae</i> to the deletion of SDH3. <i>BMC Systems Biology</i> , 2009 , 3, 17	3.5	21
28	Engineering a branch of the UDP-precursor biosynthesis pathway enhances the production of capsular polysaccharide in <i>Escherichia coli</i> O5:K4:H4. <i>Biotechnology Journal</i> , 2015 , 10, 1307-15	5.6	20
27	Monosaccharide precursors for boosting chondroitin-like capsular polysaccharide production. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 1699-709	5.7	18

26	Development of Semisynthetic, Regioselective Pathways for Accessing the Missing Sulfation Patterns of Chondroitin Sulfate. <i>Biomacromolecules</i> , 2019 , 20, 3021-3030	6.9	16
25	Microbial production and metabolic engineering of chondroitin and chondroitin sulfate. <i>Emerging Topics in Life Sciences</i> , 2018 , 2, 349-361	3.5	15
24	Engineering <i>S. equi</i> subsp. <i>zooepidemicus</i> towards concurrent production of hyaluronic acid and chondroitin biopolymers of biomedical interest. <i>AMB Express</i> , 2017 , 7, 61	4.1	13
23	Molecular weight determination of heparosan- and chondroitin-like capsular polysaccharides: figuring out differences between wild -type and engineered <i>Escherichia coli</i> strains. <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 6771-6782	5.7	12
22	IS2-mediated overexpression of <i>kfoC</i> in <i>E. coli</i> K4 increases chondroitin-like capsular polysaccharide production. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 3955-64	5.7	11
21	Protective effect of extractive and biotechnological chondroitin in insulin amyloid and advanced glycation end product-induced toxicity. <i>Journal of Cellular Physiology</i> , 2019 , 234, 3814-3828	7	10
20	<i>Lactobacillus plantarum</i> : microfiltration experiments for the production of probiotic biomass to be used in food and nutraceutical preparations. <i>Biotechnology Progress</i> , 2015 , 31, 325-33	2.8	9
19	Improved production of succinic acid from growing on and process evaluation through material flow analysis. <i>Biotechnology for Biofuels</i> , 2019 , 12, 22	7.8	8
18	Analysis of calcitonin early expression in the rat hippocampus after beta amyloid (1-42) peptide injection. <i>Brain Research</i> , 2015 , 1610, 89-97	3.7	8
17	Differential Secretome Profiling of Human Osteoarthritic Synoviocytes Treated with Biotechnological Unsulfated and Marine Sulfated Chondroitins. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	8
16	A combined fermentative-chemical approach for the scalable production of pure <i>E. coli</i> monophosphoryl lipid A. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 7781-91	5.7	8
15	Physiological characterization and quantitative proteomic analyses of metabolically engineered <i>E. coli</i> K4 strains with improved pathways for capsular polysaccharide biosynthesis. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 1801-1814	4.9	7
14	Unsulfated biotechnological chondroitin by itself as well as in combination with high molecular weight hyaluronan improves the inflammation profile in osteoarthritis in vitro model. <i>Journal of Cellular Biochemistry</i> , 2021 , 122, 1021	4.7	6
13	Statistical optimization of levan: Influence of the parameter on levan structure and angiotensin I-converting enzyme inhibitory. <i>International Journal of Biological Macromolecules</i> , 2020 , 158, 945-952	7.9	3
12	Production of a thermophilic maltooligosyl-trehalose synthase in <i>Lactococcus lactis</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2008 , 35, 1079-83	4.2	3
11	Production and purification of higher molecular weight chondroitin by metabolically engineered <i>Escherichia coli</i> K4 strains. <i>Scientific Reports</i> , 2020 , 10, 13200	4.9	3
10	Timely Supplementation of Hydrogels Containing Sulfated or Unsulfated Chondroitin and Hyaluronic Acid Affects Mesenchymal Stromal Cells Commitment Toward Chondrogenic Differentiation. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 641529	5.7	3
9	<i>Lactobacillus brevis</i> CD2: Fermentation Strategies and Extracellular Metabolites Characterization. <i>Probiotics and Antimicrobial Proteins</i> , 2020 , 12, 1542-1554	5.5	2

8	Calcium/calmodulin-dependent kinases can regulate the TSH expression in the rat pituitary. <i>Journal of Endocrinological Investigation</i> , 2021 , 44, 2387-2394	5.2	2
7	Microbioreactor (micro-Matrix) potential in aerobic and anaerobic conditions with different industrially relevant microbial strains. <i>Biotechnology Progress</i> , 2021 , 37, e3184	2.8	2
6	Chestnut Shells as Waste Material for Succinic Acid Production from <i>Actinobacillus succinogenes</i> 130Z. <i>Fermentation</i> , 2020 , 6, 105	4.7	1
5	<i>Limosilactobacillus fermentum</i> from buffalo milk is suitable for potential biotechnological process development and inhibits <i>Helicobacter pylori</i> in a gastric epithelial cell model. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2022 , e00732	5.3	1
4	Production of human pro-relaxin H2 in the yeast <i>Pichia pastoris</i> . <i>BMC Biotechnology</i> , 2017 , 17, 4	3.5	0
3	Concentrated Buffalo Whey as Substrate for Probiotic Cultures and as Source of Bioactive Ingredients: A Local Circular Economy Approach towards Reuse of Wastewaters. <i>Fermentation</i> , 2021 , 7, 281	4.7	0
2	Engineering of the UDP-precursor biosynthesis pathway to enhance the production of capsular polysaccharide in <i>E. coli</i> K4. <i>New Biotechnology</i> , 2014 , 31, S131	6.4	
1	Molecular studies on capsular polysaccharide biosynthesis. <i>Journal of Biotechnology</i> , 2007 , 131, S203	3.7	