

Alex Toftgaard Nielsen

List of Publications by Citations

Source: <https://exaly.com/author-pdf/773320/alex-toftgaard-nielsen-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55
papers

4,864
citations

28
h-index

60
g-index

60
ext. papers

5,591
ext. citations

7.2
avg, IF

5.3
L-index

#	Paper	IF	Citations
55	Quantification of biofilm structures by the novel computer program COMSTAT. <i>Microbiology (United Kingdom)</i> , 2000 , 146 (Pt 10), 2395-2407	2.9	1560
54	The Vibrio cholerae chitin utilization program. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 2524-9	11.5	386
53	Distribution of bacterial growth activity in flow-chamber biofilms. <i>Applied and Environmental Microbiology</i> , 1999 , 65, 4108-17	4.8	238
52	Molecular tools for study of biofilm physiology. <i>Methods in Enzymology</i> , 1999 , 310, 20-42	1.7	222
51	Identification of a novel group of bacteria in sludge from a deteriorated biological phosphorus removal reactor. <i>Applied and Environmental Microbiology</i> , 1999 , 65, 1251-8	4.8	201
50	In situ identification of polyphosphate- and polyhydroxyalkanoate-accumulating traits for microbial populations in a biological phosphorus removal process. <i>Environmental Microbiology</i> , 2001 , 3, 110-22	5.2	167
49	Role of commensal relationships on the spatial structure of a surface-attached microbial consortium. <i>Environmental Microbiology</i> , 2000 , 2, 59-68	5.2	152
48	Trash to treasure: production of biofuels and commodity chemicals via syngas fermenting microorganisms. <i>Current Opinion in Biotechnology</i> , 2014 , 27, 79-87	11.4	143
47	CRMAGE: CRISPR Optimized MAGE Recombineering. <i>Scientific Reports</i> , 2016 , 6, 19452	4.9	142
46	Accelerating genome editing in CHO cells using CRISPR Cas9 and CRISPy, a web-based target finding tool. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 1604-16	4.9	137
45	RpoS controls the Vibrio cholerae mucosal escape response. <i>PLoS Pathogens</i> , 2006 , 2, e109	7.6	126
44	CasEMBLR: Cas9-Facilitated Multiloci Genomic Integration of in Vivo Assembled DNA Parts in Saccharomyces cerevisiae. <i>ACS Synthetic Biology</i> , 2015 , 4, 1226-34	5.7	108
43	CrEdit: CRISPR mediated multi-loci gene integration in Saccharomyces cerevisiae. <i>Microbial Cell Factories</i> , 2015 , 14, 97	6.4	105
42	Highly Active and Specific Tyrosine Ammonia-Lyases from Diverse Origins Enable Enhanced Production of Aromatic Compounds in Bacteria and Saccharomyces cerevisiae. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 4458-76	4.8	101
41	Single nucleotide polymorphism genotyping using locked nucleic acid (LNA). <i>Expert Review of Molecular Diagnostics</i> , 2003 , 3, 27-38	3.8	93
40	Predictable tuning of protein expression in bacteria. <i>Nature Methods</i> , 2016 , 13, 233-6	21.6	86
39	Comparative study on aptamers as recognition elements for antibiotics in a label-free all-polymer biosensor. <i>Biosensors and Bioelectronics</i> , 2013 , 43, 315-20	11.8	85

38	A bistable switch and anatomical site control <i>Vibrio cholerae</i> virulence gene expression in the intestine. <i>PLoS Pathogens</i> , 2010 , 6, e1001102	7.6	76
37	Increased production of L-serine in <i>Escherichia coli</i> through Adaptive Laboratory Evolution. <i>Metabolic Engineering</i> , 2017 , 39, 141-150	9.7	74
36	Enhanced protein and biochemical production using CRISPRi-based growth switches. <i>Metabolic Engineering</i> , 2016 , 38, 274-284	9.7	58
35	The Ssr protein (T1E_1405) from <i>Pseudomonas putida</i> DOT-T1E enables oligonucleotide-based recombineering in platform strain <i>P. putida</i> EM42. <i>Biotechnology Journal</i> , 2016 , 11, 1309-1319	5.6	49
34	Broad-Host-Range ProUSER Vectors Enable Fast Characterization of Inducible Promoters and Optimization of p-Coumaric Acid Production in <i>Pseudomonas putida</i> KT2440. <i>ACS Synthetic Biology</i> , 2016 , 5, 741-53	5.7	49
33	Engineering of high yield production of L-serine in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2016 , 113, 807-16	4.9	45
32	Lactobacilli and pediococci as versatile cell factories - Evaluation of strain properties and genetic tools. <i>Biotechnology Advances</i> , 2017 , 35, 419-442	17.8	44
31	Characterization of a feedback-resistant mevalonate kinase from the archaeon <i>Methanosarcina mazei</i> . <i>Applied and Environmental Microbiology</i> , 2011 , 77, 7772-8	4.8	41
30	Genome-wide identification of tolerance mechanisms toward p-coumaric acid in <i>Pseudomonas putida</i> . <i>Biotechnology and Bioengineering</i> , 2018 , 115, 762-774	4.9	40
29	Genome editing of lactic acid bacteria: opportunities for food, feed, pharma and biotech. <i>FEMS Microbiology Letters</i> , 2019 , 366,	2.9	39
28	Genome-wide <i>Escherichia coli</i> stress response and improved tolerance towards industrially relevant chemicals. <i>Microbial Cell Factories</i> , 2016 , 15, 176	6.4	32
27	vpsA- and luxO-independent biofilms of <i>Vibrio cholerae</i> . <i>FEMS Microbiology Letters</i> , 2007 , 275, 199-206	2.9	26
26	Injection molded lab-on-a-disc platform for screening of genetically modified <i>E. coli</i> using liquid-liquid extraction and surface enhanced Raman scattering. <i>Lab on A Chip</i> , 2018 , 18, 869-877	7.2	25
25	Lab-on-a-disc platform for screening of genetically modified <i>E. coli</i> cells via cell-free electrochemical detection of p-Coumaric acid. <i>Sensors and Actuators B: Chemical</i> , 2017 , 253, 999-1005	8.5	25
24	Exploiting the potential of gas fermentation. <i>Industrial Crops and Products</i> , 2017 , 106, 21-30	5.9	21
23	Surface Enhanced Raman Scattering for Quantification of p-Coumaric Acid Produced by <i>Escherichia coli</i> . <i>Analytical Chemistry</i> , 2017 , 89, 3981-3987	7.8	20
22	Genetic toolbox for controlled expression of functional proteins in <i>Geobacillus</i> spp. <i>PLoS ONE</i> , 2017 , 12, e0171313	3.7	16
21	Increasing production yield of tyrosine and mevalonate through inhibition of biomass formation. <i>Process Biochemistry</i> , 2016 , 51, 1992-2000	4.8	15

20	Quantification of a bacterial secondary metabolite by SERS combined with SLM extraction for bioprocess monitoring. <i>Analyst, The</i> , 2017 , 142, 4553-4559	5	14
19	Genome-Wide CRISPRi-Based Identification of Targets for Decoupling Growth from Production. <i>ACS Synthetic Biology</i> , 2020 , 9, 1030-1040	5.7	13
18	CRISPR/Cas9-based genome editing for simultaneous interference with gene expression and protein stability. <i>Nucleic Acids Research</i> , 2017 , 45, e171	20.1	13
17	Application of the thermostable β -galactosidase, BgaB, from <i>Geobacillus stearothermophilus</i> as a versatile reporter under anaerobic and aerobic conditions. <i>AMB Express</i> , 2017 , 7, 169	4.1	12
16	A metabolic reconstruction of <i>Lactobacillus reuteri</i> JCM 1112 and analysis of its potential as a cell factory. <i>Microbial Cell Factories</i> , 2019 , 18, 186	6.4	11
15	Genome-wide systematic identification of methyltransferase recognition and modification patterns. <i>Nature Communications</i> , 2019 , 10, 3311	17.4	8
14	Extraction, Enrichment, and in situ Electrochemical Detection on Lab-on-a-Disc: Monitoring the Production of a Bacterial Secondary Metabolite. <i>ACS Sensors</i> , 2019 , 4, 398-405	9.2	8
13	Industrializing a Bacterial Strain for L-Serine Production through Translation Initiation Optimization. <i>ACS Synthetic Biology</i> , 2019 , 8, 2347-2358	5.7	7
12	Production of zosteric acid and other sulfated phenolic biochemicals in microbial cell factories. <i>Nature Communications</i> , 2019 , 10, 4071	17.4	6
11	A dual-reporter system for investigating and optimizing protein translation and folding in <i>E. coli</i>		4
10	Simultaneous quantification of multiple bacterial metabolites using surface-enhanced Raman scattering. <i>Analyst, The</i> , 2019 , 144, 1600-1607	5	3
9	A dual-reporter system for investigating and optimizing protein translation and folding in <i>E. coli</i> . <i>Nature Communications</i> , 2021 , 12, 6093	17.4	3
8	An autoinducible <i>trp-T7</i> expression system for production of proteins and biochemicals in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2020 , 117, 1513-1524	4.9	2
7	CRISPR interference of nucleotide biosynthesis improves production of a single-domain antibody in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2020 , 117, 3835-3848	4.9	2
6	Synergistic stabilization of a double mutant in chymotrypsin inhibitor 2 from a library screen in <i>E. coli</i> . <i>Communications Biology</i> , 2021 , 4, 980	6.7	2
5	Synergistic stabilization of a double mutant in CI2 from an in-cell library screen		1
4	A metabolic reconstruction of <i>Lactobacillus reuteri</i> JCM 1112 and analysis of its potential as a cell factory		1
3	Catalytic production of long-chain hydrocarbons suitable for jet-fuel use from fermentation-derived oxygenates. <i>Green Chemistry</i> ,	10	1

- 2 Genome-scale metabolic modeling of *P. thermoglucosidasius* NCIMB 11955 reveals metabolic bottlenecks in anaerobic metabolism. *Metabolic Engineering*, **2021**, 65, 123-134 9.7 ○
- 1 Genome editing of lactic acid bacteria: opportunities for food, feed, pharma and biotech. *FEMS Microbiology Letters*, **2019**, 366, i30-i41 2.9