

Alex Toftgaard Nielsen

List of Publications by Year in Descending Order

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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.

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	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
54	Genome-scale metabolic modeling of <i>P. thermoglucosidasius</i> NCIMB 11955 reveals metabolic bottlenecks in anaerobic metabolism. <i>Metabolic Engineering</i> , 2021 , 65, 123-134	9.7	0
53	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
52	An autoinducible trp-T7 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
51	Genome-Wide CRISPRi-Based Identification of Targets for Decoupling Growth from Production. <i>ACS Synthetic Biology</i> , 2020 , 9, 1030-1040	5.7	13
50	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
49	Production of zosteric acid and other sulfated phenolic biochemicals in microbial cell factories. <i>Nature Communications</i> , 2019 , 10, 4071	17.4	6
48	Industrializing a Bacterial Strain for l-Serine Production through Translation Initiation Optimization. <i>ACS Synthetic Biology</i> , 2019 , 8, 2347-2358	5.7	7
47	Simultaneous quantification of multiple bacterial metabolites using surface-enhanced Raman scattering. <i>Analyst, The</i> , 2019 , 144, 1600-1607	5	3
46	Genome-wide systematic identification of methyltransferase recognition and modification patterns. <i>Nature Communications</i> , 2019 , 10, 3311	17.4	8
45	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
44	Genome editing of lactic acid bacteria: opportunities for food, feed, pharma and biotech. <i>FEMS Microbiology Letters</i> , 2019 , 366, i30-i41	2.9	
43	Genome editing of lactic acid bacteria: opportunities for food, feed, pharma and biotech. <i>FEMS Microbiology Letters</i> , 2019 , 366,	2.9	39
42	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
41	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
40	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
39	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

38	Increased production of L-serine in Escherichia coli through Adaptive Laboratory Evolution. <i>Metabolic Engineering</i> , 2017 , 39, 141-150	9.7	74
37	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
36	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
35	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
34	Lab-on-a-disc platform for screening of genetically modified E. coli cells via cell-free electrochemical detection of p-Coumaric acid. <i>Sensors and Actuators B: Chemical</i> , 2017 , 253, 999-1005	8.5	25
33	Exploiting the potential of gas fermentation. <i>Industrial Crops and Products</i> , 2017 , 106, 21-30	5.9	21
32	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
31	Genetic toolbox for controlled expression of functional proteins in <i>Geobacillus</i> spp. <i>PLoS ONE</i> , 2017 , 12, e0171313	3.7	16
30	Enhanced protein and biochemical production using CRISPRi-based growth switches. <i>Metabolic Engineering</i> , 2016 , 38, 274-284	9.7	58
29	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
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	Predictable tuning of protein expression in bacteria. <i>Nature Methods</i> , 2016 , 13, 233-6	21.6	86
26	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
25	CRMAGE: CRISPR Optimized MAGE Recombineering. <i>Scientific Reports</i> , 2016 , 6, 19452	4.9	142
24	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
23	Increasing production yield of tyrosine and mevalonate through inhibition of biomass formation. <i>Process Biochemistry</i> , 2016 , 51, 1992-2000	4.8	15
22	CasEMBLR: Cas9-Facilitated Multiloci Genomic Integration of in Vivo Assembled DNA Parts in <i>Saccharomyces cerevisiae</i> . <i>ACS Synthetic Biology</i> , 2015 , 4, 1226-34	5.7	108
21	Highly Active and Specific Tyrosine Ammonia-Lyases from Diverse Origins Enable Enhanced Production of Aromatic Compounds in Bacteria and <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2015 , 81, 4458-76	4.8	101

20	CrEdit: CRISPR mediated multi-loci gene integration in <i>Saccharomyces cerevisiae</i> . <i>Microbial Cell Factories</i> , 2015 , 14, 97	6.4	105
19	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
18	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
17	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
16	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
15	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
14	vpsA- and luxO-independent biofilms of <i>Vibrio cholerae</i> . <i>FEMS Microbiology Letters</i> , 2007 , 275, 199-206	2.9	26
13	RpoS controls the <i>Vibrio cholerae</i> mucosal escape response. <i>PLoS Pathogens</i> , 2006 , 2, e109	7.6	126
12	The <i>Vibrio cholerae</i> 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
11	Single nucleotide polymorphism genotyping using locked nucleic acid (LNA). <i>Expert Review of Molecular Diagnostics</i> , 2003 , 3, 27-38	3.8	93
10	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
9	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
8	Quantification of biofilm structures by the novel computer program COMSTAT. <i>Microbiology (United Kingdom)</i> , 2000 , 146 (Pt 10), 2395-2407	2.9	1560
7	Distribution of bacterial growth activity in flow-chamber biofilms. <i>Applied and Environmental Microbiology</i> , 1999 , 65, 4108-17	4.8	238
6	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
5	Molecular tools for study of biofilm physiology. <i>Methods in Enzymology</i> , 1999 , 310, 20-42	1.7	222
4	Synergistic stabilization of a double mutant in C12 from an in-cell library screen		1
3	A dual-reporter system for investigating and optimizing protein translation and folding in <i>E. coli</i>		4

2	A metabolic reconstruction of <i>Lactobacillus reuteri</i> JCM 1112 and analysis of its potential as a cell factory	1
1	Catalytic production of long-chain hydrocarbons suitable for jet-fuel use from fermentation-derived oxygenates. <i>Green Chemistry</i> ,	10 1