

Alex Toftgaard Nielsen

List of Publications by Year in descending order

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56
papers

6,148
citations

159358

30
h-index

161609

54
g-index

60
all docs

60
docs citations

60
times ranked

7783
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantification of biofilm structures by the novel computer program comstat. Microbiology (United Tj ETQq1 1 0.784314 rgBT/Overlbc 0.7 1,899		
2	The Vibrio cholerae chitin utilization program. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 2524-2529.	3.3	485
3	Distribution of Bacterial Growth Activity in Flow-Chamber Biofilms. Applied and Environmental Microbiology, 1999, 65, 4108-4117.	1.4	267
4	[2] Molecular tools for study of biofilm physiology. Methods in Enzymology, 1999, 310, 20-42.	0.4	246
5	Identification of a Novel Group of Bacteria in Sludge from a Deteriorated Biological Phosphorus Removal Reactor. Applied and Environmental Microbiology, 1999, 65, 1251-1258.	1.4	220
6	In situ identification of polyphosphate- and polyhydroxyalkanoate-accumulating traits for microbial populations in a biological phosphorus removal process. Environmental Microbiology, 2001, 3, 110-122.	1.8	190
7	CRMAGE: CRISPR Optimized MAGE Recombineering. Scientific Reports, 2016, 6, 19452.	1.6	180
8	Role of commensal relationships on the spatial structure of a surface-attached microbial consortium. Environmental Microbiology, 2000, 2, 59-68.	1.8	175
9	Trash to treasure: production of biofuels and commodity chemicals via syngas fermenting microorganisms. Current Opinion in Biotechnology, 2014, 27, 79-87.	3.3	175
10	Accelerating genome editing in CHO cells using CRISPR Cas9 and CRISPy, a web-based target finding tool. Biotechnology and Bioengineering, 2014, 111, 1604-1616.	1.7	167
11	RpoS Controls the Vibrio cholerae Mucosal Escape Response. PLoS Pathogens, 2006, 2, e109.	2.1	149
12	Highly Active and Specific Tyrosine Ammonia-Lyases from Diverse Origins Enable Enhanced Production of Aromatic Compounds in Bacteria and Saccharomyces cerevisiae. Applied and Environmental Microbiology, 2015, 81, 4458-4476.	1.4	148
13	CasEMBLR: Cas9-Facilitated Multiloci Genomic Integration of <i>in Vivo</i> Assembled DNA Parts in <i>Saccharomyces cerevisiae</i> . ACS Synthetic Biology, 2015, 4, 1226-1234.	1.9	148
14	CrEdit: CRISPR mediated multi-loci gene integration in Saccharomyces cerevisiae. Microbial Cell Factories, 2015, 14, 97.	1.9	134
15	Predictable tuning of protein expression in bacteria. Nature Methods, 2016, 13, 233-236.	9.0	116
16	Increased production of L-serine in Escherichia coli through Adaptive Laboratory Evolution. Metabolic Engineering, 2017, 39, 141-150.	3.6	116
17	Single nucleotide polymorphism genotyping using locked nucleic acid (LNA). Expert Review of Molecular Diagnostics, 2003, 3, 27-38.	1.5	100
18	A Bistable Switch and Anatomical Site Control Vibrio cholerae Virulence Gene Expression in the Intestine. PLoS Pathogens, 2010, 6, e1001102.	2.1	94

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19	Comparative study on aptamers as recognition elements for antibiotics in a label-free all-polymer biosensor. <i>Biosensors and Bioelectronics</i> , 2013, 43, 315-320.	5.3	93
20	Broad-Host-Range ProUSER Vectors Enable Fast Characterization of Inducible Promoters and Optimization of <i>p</i> -Coumaric Acid Production in <i>Pseudomonas putida</i> KT2440. <i>ACS Synthetic Biology</i> , 2016, 5, 741-753.	1.9	82
21	Enhanced protein and biochemical production using CRISPRi-based growth switches. <i>Metabolic Engineering</i> , 2016, 38, 274-284.	3.6	78
22	Engineering of high yield production of L-serine in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2016, 113, 807-816.	1.7	70
23	Genome editing of lactic acid bacteria: opportunities for food, feed, pharma and biotech. <i>FEMS Microbiology Letters</i> , 2019, 366, .	0.7	68
24	The Ssr protein (T1E_1405) from <i>Pseudomonas putida</i> DOT1E enables oligonucleotide-based recombineering in platform strain <i>P. putida</i> EM42. <i>Biotechnology Journal</i> , 2016, 11, 1309-1319.	1.8	65
25	Genome-wide identification of tolerance mechanisms toward <i>p</i> -coumaric acid in <i>Pseudomonas putida</i> . <i>Biotechnology and Bioengineering</i> , 2018, 115, 762-774.	1.7	64
26	Lactobacilli and pediococci as versatile cell factories – Evaluation of strain properties and genetic tools. <i>Biotechnology Advances</i> , 2017, 35, 419-442.	6.0	60
27	Genome-wide <i>Escherichia coli</i> stress response and improved tolerance towards industrially relevant chemicals. <i>Microbial Cell Factories</i> , 2016, 15, 176.	1.9	54
28	Characterization of a Feedback-Resistant Mevalonate Kinase from the Archaeon <i>Methanosarcina mazei</i> . <i>Applied and Environmental Microbiology</i> , 2011, 77, 7772-7778.	1.4	50
29	Exploiting the potential of gas fermentation. <i>Industrial Crops and Products</i> , 2017, 106, 21-30.	2.5	32
30	Lab-on-a-disc platform for screening of genetically modified <i>E. coli</i> cells via cell-free electrochemical detection of <i>p</i> -Coumaric acid. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 999-1005.	4.0	31
31	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.	3.1	31
32	<i>vpsA</i> and <i>luxO</i> -independent biofilms of <i>Vibrio cholerae</i> . <i>FEMS Microbiology Letters</i> , 2007, 275, 199-206.	0.7	30
33	Genome-Wide CRISPRi-Based Identification of Targets for Decoupling Growth from Production. <i>ACS Synthetic Biology</i> , 2020, 9, 1030-1040.	1.9	29
34	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.	1.9	24
35	Surface Enhanced Raman Scattering for Quantification of <i>p</i> -Coumaric Acid Produced by <i>Escherichia coli</i> . <i>Analytical Chemistry</i> , 2017, 89, 3981-3987.	3.2	22
36	Industrializing a Bacterial Strain for <i>scp</i> -Serine Production through Translation Initiation Optimization. <i>ACS Synthetic Biology</i> , 2019, 8, 2347-2358.	1.9	21

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37	Genetic toolbox for controlled expression of functional proteins in <i>Geobacillus</i> spp.. PLoS ONE, 2017, 12, e0171313.	1.1	21
38	Increasing production yield of tyrosine and mevalonate through inhibition of biomass formation. Process Biochemistry, 2016, 51, 1992-2000.	1.8	20
39	Genome-wide systematic identification of methyltransferase recognition and modification patterns. Nature Communications, 2019, 10, 3311.	5.8	18
40	Application of the thermostable β -galactosidase, BgaB, from <i>Geobacillus stearothermophilus</i> as a versatile reporter under anaerobic and aerobic conditions. AMB Express, 2017, 7, 169.	1.4	16
41	Extraction, Enrichment, and in situ Electrochemical Detection on Lab-on-a-Disc: Monitoring the Production of a Bacterial Secondary Metabolite. ACS Sensors, 2019, 4, 398-405.	4.0	16
42	Quantification of a bacterial secondary metabolite by SERS combined with SLM extraction for bioprocess monitoring. Analyst, The, 2017, 142, 4553-4559.	1.7	15
43	CRISPR/Cas9-based genome editing for simultaneous interference with gene expression and protein stability. Nucleic Acids Research, 2017, 45, e171-e171.	6.5	15
44	Production of zosteric acid and other sulfated phenolic biochemicals in microbial cell factories. Nature Communications, 2019, 10, 4071.	5.8	15
45	Genome-scale metabolic modeling of <i>P. thermoglucosidasius</i> NCIMB 11955 reveals metabolic bottlenecks in anaerobic metabolism. Metabolic Engineering, 2021, 65, 123-134.	3.6	14
46	CRISPR interference of nucleotide biosynthesis improves production of a single-domain antibody in <i>Escherichia coli</i> . Biotechnology and Bioengineering, 2020, 117, 3835-3848.	1.7	13
47	Synergistic stabilization of a double mutant in chymotrypsin inhibitor 2 from a library screen in <i>E. coli</i> . Communications Biology, 2021, 4, 980.	2.0	13
48	A dual-reporter system for investigating and optimizing protein translation and folding in <i>E. coli</i> . Nature Communications, 2021, 12, 6093.	5.8	12
49	Catalytic production of long-chain hydrocarbons suitable for jet-fuel use from fermentation-derived oxygenates. Green Chemistry, 2022, 24, 3461-3474.	4.6	12
50	Simultaneous quantification of multiple bacterial metabolites using surface-enhanced Raman scattering. Analyst, The, 2019, 144, 1600-1607.	1.7	7
51	High-throughput colorimetric assays optimized for detection of ketones and aldehydes produced by microbial cell factories. Microbial Biotechnology, 2022, 15, 2426-2438.	2.0	6
52	Editorial overview: Chemical biotechnology: Interdisciplinary concepts for modern biotechnological production of biochemicals and biofuels. Current Opinion in Biotechnology, 2015, 35, 133-134.	3.3	5
53	An autoinducible <i>trp</i> expression system for production of proteins and biochemicals in <i>Escherichia coli</i> . Biotechnology and Bioengineering, 2020, 117, 1513-1524.	1.7	5
54	The ProUSER2.0 Toolbox: Genetic Parts and Highly Customizable Plasmids for Synthetic Biology in <i>Bacillus subtilis</i> . ACS Synthetic Biology, 2021, , .	1.9	4

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55	Towards Improved Biophysical Calculations to Identify Disease-Causing Mutations. Biophysical Journal, 2018, 114, 199a.	0.2	0
56	Genome editing of lactic acid bacteria: opportunities for food, feed, pharma and biotech. FEMS Microbiology Letters, 2019, 366, i30-i41.	0.7	0