

Marjan De Mey

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

3,578
citations

147801

31
h-index

138484

58
g-index

72
all docs

72
docs citations

72
times ranked

4269
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbial metabolomics: past, present and future methodologies. <i>Biotechnology Letters</i> , 2007, 29, 1-16.	2.2	302
2	The future of metabolic engineering and synthetic biology: Towards a systematic practice. <i>Metabolic Engineering</i> , 2012, 14, 233-241.	7.0	277
3	Microbial succinic acid production: Natural versus metabolic engineered producers. <i>Process Biochemistry</i> , 2010, 45, 1103-1114.	3.7	240
4	Minimizing acetate formation in <i>E. coli</i> fermentations. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2007, 34, 689-700.	3.0	198
5	Overcoming heterologous protein interdependency to optimize P450-mediated Taxol precursor synthesis in <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3209-3214.	7.1	193
6	Construction and model-based analysis of a promoter library for <i>E. coli</i> : an indispensable tool for metabolic engineering. <i>BMC Biotechnology</i> , 2007, 7, 34.	3.3	152
7	Development and application of a differential method for reliable metabolome analysis in <i>Escherichia coli</i> . <i>Analytical Biochemistry</i> , 2009, 386, 9-19.	2.4	145
8	Multivariate modular metabolic engineering for pathway and strain optimization. <i>Current Opinion in Biotechnology</i> , 2014, 29, 156-162.	6.6	129
9	Biotechnological advances in UDP-sugar based glycosylation of small molecules. <i>Biotechnology Advances</i> , 2015, 33, 288-302.	11.7	128
10	Towards a carbon-negative sustainable bio-based economy. <i>Frontiers in Plant Science</i> , 2013, 4, 174.	3.6	114
11	Effect of <i>iclR</i> and <i>arcA</i> knockouts on biomass formation and metabolic fluxes in <i>Escherichia coli</i> K12 and its implications on understanding the metabolism of <i>Escherichia coli</i> BL21 (DE3). <i>BMC Microbiology</i> , 2011, 11, 70.	3.3	86
12	Biotechnological production of natural zero-calorie sweeteners. <i>Current Opinion in Biotechnology</i> , 2014, 26, 155-161.	6.6	84
13	Tailor-made transcriptional biosensors for optimizing microbial cell factories. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2017, 44, 623-645.	3.0	84
14	Efficient utilization of pentoses for bioproduction of the renewable two-carbon compounds ethylene glycol and glycolate. <i>Metabolic Engineering</i> , 2016, 34, 80-87.	7.0	82
15	A sigma factor toolbox for orthogonal gene expression in <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 2018, 46, 2133-2144.	14.5	74
16	Enhancing the Microbial Conversion of Glycerol to 1,3-Propanediol Using Metabolic Engineering. <i>Organic Process Research and Development</i> , 2011, 15, 189-202.	2.7	66
17	Importance of the cytochrome P450 monooxygenase CYP52 family for the sophorolipid-producing yeast <i>Candida bombicola</i> . <i>FEMS Yeast Research</i> , 2009, 9, 87-94.	2.3	64
18	Metabolic engineering of <i>Escherichia coli</i> into a versatile glycosylation platform: production of bio-active quercetin glycosides. <i>Microbial Cell Factories</i> , 2015, 14, 138.	4.0	62

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19	One step DNA assembly for combinatorial metabolic engineering. <i>Metabolic Engineering</i> , 2014, 23, 70-77.	7.0	58
20	Direct Combinatorial Pathway Optimization. <i>ACS Synthetic Biology</i> , 2017, 6, 224-232.	3.8	57
21	Standardization in synthetic biology: an engineering discipline coming of age. <i>Critical Reviews in Biotechnology</i> , 2018, 38, 647-656.	9.0	56
22	Engineering a novel biosynthetic pathway in <i>Escherichia coli</i> for production of renewable ethylene glycol. <i>Biotechnology and Bioengineering</i> , 2016, 113, 376-383.	3.3	54
23	Comparison of Different Strategies to Reduce Acetate Formation in <i>Escherichia coli</i> . <i>Biotechnology Progress</i> , 2007, 23, 0-0.	2.6	47
24	Integrating the Protein and Metabolic Engineering Toolkits for Next-Generation Chemical Biosynthesis. <i>ACS Chemical Biology</i> , 2013, 8, 662-672.	3.4	47
25	Development of an in vivo glucosylation platform by coupling production to growth: Production of phenolic glucosides by a glycosyltransferase of <i>Vitis vinifera</i> . <i>Biotechnology and Bioengineering</i> , 2015, 112, 1594-1603.	3.3	42
26	Comparison of DNA and RNA quantification methods suitable for parameter estimation in metabolic modeling of microorganisms. <i>Analytical Biochemistry</i> , 2006, 353, 198-203.	2.4	36
27	Promoter knock-in: a novel rational method for the fine tuning of genes. <i>BMC Biotechnology</i> , 2010, 10, 26.	3.3	35
28	Changes in substrate availability in <i>Escherichia coli</i> lead to rapid metabolite, flux and growth rate responses. <i>Metabolic Engineering</i> , 2013, 16, 115-129.	7.0	35
29	Orthogonal Assays Clarify the Oxidative Biochemistry of Taxol P450 CYP725A4. <i>ACS Chemical Biology</i> , 2016, 11, 1445-1451.	3.4	35
30	A constitutive expression system for high-throughput screening. <i>Engineering in Life Sciences</i> , 2011, 11, 10-19.	3.6	33
31	Chimeric LysR-Type Transcriptional Biosensors for Customizing Ligand Specificity Profiles toward Flavonoids. <i>ACS Synthetic Biology</i> , 2019, 8, 318-331.	3.8	33
32	Modularization and Response Curve Engineering of a Naringenin-Responsive Transcriptional Biosensor. <i>ACS Synthetic Biology</i> , 2018, 7, 1303-1314.	3.8	31
33	Predictive design of sigma factor-specific promoters. <i>Nature Communications</i> , 2020, 11, 5822.	12.8	31
34	Catching prompt metabolite dynamics in <i>Escherichia coli</i> with the BioScope at oxygen rich conditions. <i>Metabolic Engineering</i> , 2010, 12, 477-487.	7.0	30
35	<i>Citrobacter werkmanii</i> , a new candidate for the production of 1,3-propanediol: strain selection and carbon source optimization. <i>Green Chemistry</i> , 2012, 14, 2168.	9.0	30
36	High yield 1,3-propanediol production by rational engineering of the 3-hydroxypropionaldehyde bottleneck in <i>Citrobacter werkmanii</i> . <i>Microbial Cell Factories</i> , 2016, 15, 23.	4.0	30

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37	Effect of iclR and arcA deletions on physiology and metabolic fluxes in Escherichia coli BL21 (DE3). <i>Biotechnology Letters</i> , 2012, 34, 329-337.	2.2	27
38	Increasing recombinant protein production in Escherichia coli K12 through metabolic engineering. <i>New Biotechnology</i> , 2013, 30, 255-261.	4.4	25
39	Development of <i>N</i> -acetylneuraminic acid responsive biosensors based on the transcriptional regulator NanR. <i>Biotechnology and Bioengineering</i> , 2018, 115, 1855-1865.	3.3	23
40	Toward Predictable 5'UTRs in <i>Saccharomyces cerevisiae</i> : Development of a yUTR Calculator. <i>ACS Synthetic Biology</i> , 2018, 7, 622-634.	3.8	22
41	Modulating transcription through development of semi-synthetic yeast core promoters. <i>PLoS ONE</i> , 2019, 14, e0224476.	2.5	22
42	Unraveling the Leloir Pathway of <i>Bifidobacterium bifidum</i> : Significance of the Uridyltransferases. <i>Applied and Environmental Microbiology</i> , 2013, 79, 7028-7035.	3.1	21
43	Comparison of protein quantification and extraction methods suitable for <i>E. coli</i> cultures. <i>Biologicals</i> , 2008, 36, 198-202.	1.4	19
44	Putting RNA to work: Translating RNA fundamentals into biotechnological engineering practice. <i>Biotechnology Advances</i> , 2015, 33, 1829-1844.	11.7	19
45	Heterologous expression and characterization of plant Taxadiene-5 β -Hydroxylase (CYP725A4) in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2017, 132, 60-67.	1.3	19
46	Metabolic characterisation of <i>E. coli</i> citrate synthase and phosphoenolpyruvate carboxylase mutants in aerobic cultures. <i>Biotechnology Letters</i> , 2006, 28, 1945-1953.	2.2	16
47	1,3-propanediol production with <i>Citrobacter werkmanii</i> DSM17579: effect of a dhaD knock-out. <i>Microbial Cell Factories</i> , 2014, 13, 70.	4.0	16
48	Challenges in the microbial production of flavonoids. <i>Phytochemistry Reviews</i> , 2018, 17, 229-247.	6.5	14
49	Mapping and refactoring pathway control through metabolic and protein engineering: The hexosamine biosynthesis pathway. <i>Biotechnology Advances</i> , 2020, 40, 107512.	11.7	13
50	Cloning, sequence analysis and heterologous expression of the <i>Myrothecium gramineum</i> rotidine-5 β -monophosphate decarboxylase gene. <i>FEMS Microbiology Letters</i> , 2006, 261, 262-271.	1.8	12
51	Comparative fluxome and metabolome analysis for overproduction of succinate in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2016, 113, 817-829.	3.3	12
52	Recursive DNA Assembly Using Protected Oligonucleotide Duplex Assisted Cloning (PODAC). <i>ACS Synthetic Biology</i> , 2017, 6, 943-949.	3.8	12
53	<i>In Vitro</i> Microbial Metabolism of (+)-Catechin Reveals Fast and Slow Converters with Individual-Specific Microbial and Metabolite Markers. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 10405-10416.	5.2	11
54	Validation study of 24 deepwell microtiterplates to screen libraries of strains in metabolic engineering. <i>Journal of Bioscience and Bioengineering</i> , 2010, 110, 646-652.	2.2	10

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55	Unraveling the dha cluster in <i>Citrobacter werkmanii</i> : comparative genomic analysis of bacterial 1,3-propanediol biosynthesis clusters. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 711-718.	3.4	9
56	The Donor-Dependent and Colon-Region-Dependent Metabolism of (+)-Catechin by Colonic Microbiota in the Simulator of the Human Intestinal Microbial Ecosystem. <i>Molecules</i> , 2022, 27, 73.	3.8	9
57	Biosensor-driven, model-based optimization of the orthogonally expressed naringenin biosynthesis pathway. <i>Microbial Cell Factories</i> , 2022, 21, 49.	4.0	8
58	Development of a selection system for the detection of L-ribose isomerase expressing mutants of <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2007, 76, 1051-1057.	3.6	7
59	Improving the performance of machine learning models for biotechnology: The quest for deus ex machina. <i>Biotechnology Advances</i> , 2021, 53, 107858.	11.7	7
60	Metabolic engineering for glyco-glycerolipids production in <i>E. coli</i> : Tuning phosphatidic acid and UDP-glucose pathways. <i>Metabolic Engineering</i> , 2020, 61, 106-119.	7.0	6
61	Transient metabolic modeling of <i>Escherichia coli</i> MG1655 and MG1655 Δ ackA-pta, Δ poxB Δ ppc ppc-p37 for recombinant Δ 2-galactosidase production. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2010, 37, 793-803.	3.0	5
62	Transport kinetics of ectoine, an osmolyte produced by <i>Brevibacterium epidermis</i> . <i>Biotechnology Letters</i> , 2006, 28, 1741-1747.	2.2	4
63	Exploring of the feature space of de novo developed post-transcriptional riboregulators. <i>PLoS Computational Biology</i> , 2018, 14, e1006170.	3.2	4
64	Programming Biology: Expanding the Toolset for the Engineering of Transcription. , 2016, , 1-64.		2
65	Combinatorial Assembly of Multigene Pathways by Combining Single-Strand Assembly with Golden Gate Assembly. <i>Methods in Molecular Biology</i> , 2019, 1927, 111-123.	0.9	2
66	Novel DNA and RNA Elements. , 2016, , 65-99.		1
67	Importance of the cytochrome P450 monooxygenase CYP52 family for the sophorolipid-producing yeast <i>Candida bombicola</i> . <i>FEMS Yeast Research</i> , 2010, 10, 791-791.	2.3	0
68	Automated de novo design of ligand responsive RNA devices. <i>New Biotechnology</i> , 2016, 33, S14.	4.4	0
69	Editorial overview: Tissue, cell and pathway engineering. <i>Current Opinion in Biotechnology</i> , 2019, 59, iii-v.	6.6	0
70	Engineering transcriptional regulation in <i>Escherichia coli</i> using an archaeal TetR-family transcription factor. <i>Gene</i> , 2022, 809, 146010.	2.2	0