Gerd M Seibold

List of Publications by Year
in descending order

48 papers	1,490 citations	331670 21 h-index	330143 37 g-index
56 all docs	56 docs citations	56 times ranked	1366 citing authors

#	Article	IF	Citations
1	Utilization of soluble starch by a recombinant Corynebacterium glutamicum strain: Growth and lysine production. Journal of Biotechnology, 2006, 124, 381-391.	3.8	122
2	Phosphotransferase System-Independent Glucose Utilization in Corynebacterium glutamicum by Inositol Permeases and Glucokinases. Applied and Environmental Microbiology, 2011, 77, 3571-3581.	3.1	103
3	Carbohydrate metabolism in Corynebacterium glutamicum and applications for the metabolic engineering of l-lysine production strains. Applied Microbiology and Biotechnology, 2010, 86, 1313-1322.	3.6	102
4	Chassis organism from <i>Corynebacterium glutamicum</i> â€“ a topâ€down approach to identify and delete irrelevant gene clusters. Biotechnology Journal, 2015, 10, 290-301.	3.5	102
5	Glucosamine as carbon source for amino acid-producing Corynebacterium glutamicum. Applied Microbiology and Biotechnology, 2013, 97, 1679-1687.	3.6	91
6	Real-time PCR quantification of bacterial adhesion to Caco-2 cells: Competition between bifidobacteria and enteropathogens. Research in Microbiology, 2005, 156, 887-895.	2.1	69
7	Protein <i>S-</i>Mycothiolation Functions as Redox-Switch and Thiol Protection Mechanism in <i>Corynebacterium glutamicum</i> Under Hypochlorite Stress. Antioxidants and Redox Signaling, 2014, 20, 589-605.	5.4	68
8	<i>Corynebacterium glutamicum</i> Chassis C1*: Building and Testing a Novel Platform Host for Synthetic Biology and Industrial Biotechnology. ACS Synthetic Biology, 2018, 7, 132-144.	3.8	63
9	The glgX gene product of Corynebacterium glutamicum is required for glycogen degradation and for fast adaptation to hyperosmotic stress. Microbiology (United Kingdom), 2007, 153, 2212-2220.	1.8	61
10	Engineering of Corynebacterium glutamicum for growth and l-lysine and lycopene production from N-acetyl-glucosamine. Applied Microbiology and Biotechnology, 2014, 98, 5633-5643.	3.6	60
11	Glycogen formation in Corynebacterium glutamicum and role of ADP-glucose pyrophosphorylase. Microbiology (United Kingdom), 2007, 153, 1275-1285.	1.8	49
12	Increased Glucose Utilization in <i>Corynebacterium glutamicum</i> by Use of Maltose, and Its Application for the Improvement of <scp>l</scp> -Valine Productivity. Applied and Environmental Microbiology, 2010, 76, 370-374.	3.1	48
13	Phosphotransferase System-Mediated Glucose Uptake Is Repressed in Phosphoglucoisomerase-Deficient Corynebacterium glutamicum Strains. Applied and Environmental Microbiology, 2013, 79, 2588-2595.	3.1	39
14	Roles of maltodextrin and glycogen phosphorylases in maltose utilization and glycogen metabolism in Corynebacterium glutamicum. Microbiology (United Kingdom), 2009, 155, 347-358.	1.8	38
15	Link between Phosphate Starvation and Glycogen Metabolism in <i>Corynebacterium glutamicum</i> , Revealed by Metabolomics. Applied and Environmental Microbiology, 2010, 76, 6910-6919.	3.1	33
16	Arabitol Metabolism of Corynebacterium glutamicum and Its Regulation by AtlR. Journal of Bacteriology, 2012, 194, 941-955.	2.2	32
17	Real Time Monitoring of NADPH Concentrations in Corynebacterium glutamicum and Escherichia coli via the Genetically Encoded Sensor mBFP. Frontiers in Microbiology, 2018, 9, 2564.	3.5	30
18	A simple dual-inducible CRISPR interference system for multiple gene targeting in Corynebacterium glutamicum. Plasmid, 2019, 103, 25-35.	1.4	28

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19	Impact of a new glucose utilization pathway in amino acid-producingCorynebacterium glutamicum. Bioengineered Bugs, 2011, 2, 291-295.	1.7	25
20	The transcriptional regulators RamA and RamB are involved in the regulation of glycogen synthesis in Corynebacterium glutamicum. Microbiology (United Kingdom), 2010, 156, 1256-1263.	1.8	21
21	Production of the compatible solute Î±-d-glucosylglycerol by metabolically engineered Corynebacterium glutamicum. Microbial Cell Factories, 2018, 17, 94.	4.0	21
22	The glgB-encoded glycogen branching enzyme is essential for glycogen accumulation in Corynebacterium glutamicum. Microbiology (United Kingdom), 2011, 157, 3243-3251.	1.8	20
23	Characterization of the biofilm phenotype of a Listeria monocytogenes mutant deficient in agr peptide sensing. MicrobiologyOpen, 2019, 8, e00826.	3.0	20
24	Maltose Uptake by the Novel ABC Transport System MusEFGK ₂ I Causes Increased Expression of <i>ptsG</i> in Corynebacterium glutamicum. Journal of Bacteriology, 2013, 195, 2573-2584.	2.2	19
25	Inactivation of the phosphoglucomutase gene <i>pgm</i> in <i>Corynebacterium glutamicum</i> affects cell shape and glycogen metabolism. Bioscience Reports, 2013, 33, .	2.4	15
26	Coupling Molecular Photocatalysis to Enzymatic Conversion. ChemCatChem, 2017, 9, 4369-4376.	3.7	15
27	Establishing recombinant production of pediocin PA-1 in Corynebacterium glutamicum. Metabolic Engineering, 2021, 68, 34-45.	7.0	15
28	Intracellular pHluorin as Sensor for Easy Assessment of Bacteriocin-Induced Membrane-Damage in Listeria monocytogenes. Frontiers in Microbiology, 2018, 9, 3038.	3.5	14
29	Digital models in biotechnology: Towards multi-scale integration and implementation. Biotechnology Advances, 2022, 60, 108015.	11.7	14
30	Recombinant production of the lantibiotic nisin using Corynebacterium glutamicum in a two-step process. Microbial Cell Factories, 2022, 21, 11.	4.0	13
31	Transcription of Sialic Acid Catabolism Genes in Corynebacterium glutamicum Is Subject to Catabolite Repression and Control by the Transcriptional Repressor NanR. Journal of Bacteriology, 2016, 198, 2204-2218.	2.2	12
32	Construction of pOGOduet â€“ An inducible, bicistronic vector for synthesis of recombinant proteins in Corynebacterium glutamicum. Plasmid, 2018, 95, 11-15.	1.4	11
33	Switching the Mechanism of NADH Photooxidation by Supramolecular Interactions. Chemistry - A European Journal, 2021, 27, 16840-16845.	3.3	11
34	Transforming<i>Escherichia coli</i>Proteomembranes into Artificial Chloroplasts Using Molecular Photocatalysis. Angewandte Chemie - International Edition, 2022, 61, .	13.8	11
35	The Î±-Glucan Phosphorylase MalP of Corynebacterium glutamicum Is Subject to Transcriptional Regulation and Competitive Inhibition by ADP-Glucose. Journal of Bacteriology, 2015, 197, 1394-1407.	2.2	10
36	The Industrial Organism Corynebacterium glutamicum Requires Mycothiol as Antioxidant to Resist Against Oxidative Stress in Bioreactor Cultivations. Antioxidants, 2020, 9, 969.	5.1	10

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37	Metabolic Engineering of Corynebacterium glutamicum for Production of UDP-N-Acetylglucosamine. Frontiers in Bioengineering and Biotechnology, 2021, 9, 748510.	4.1	9
38	Substrateâ€dependent cluster density dynamics of Corynebacterium glutamicum phosphotransferase system permeases. Molecular Microbiology, 2019, 111, 1335-1354.	2.5	8
39	Evolving a New Efficient Mode of Fructose Utilization for Improved Bioproduction in Corynebacterium glutamicum. Frontiers in Bioengineering and Biotechnology, 2021, 9, 669093.	4.1	7
40	Angicin, a novel bacteriocin of Streptococcus anginosus. Scientific Reports, 2021, 11, 24377.	3.3	7
41	Time-resolved ATP measurements during vesicle respiration. Talanta, 2019, 205, 120083.	5.5	6
42	Transcription of malP is subject to phosphotransferase system-dependent regulation in Corynebacterium glutamicum. Microbiology (United Kingdom), 2015, 161, 1830-1843.	1.8	6
43	Visualizing the pH in Escherichia coli Colonies via the Sensor Protein mCherryEA Allows High-Throughput Screening of Mutant Libraries. MSystems, 2022, 7, e0021922.	3.8	6
44	Comparison of noninvasive, in-situ and external monitoring of microbial growth in fed-batch cultivations in Corynebacterium glutamicum. Biochemical Engineering Journal, 2021, 170, 107989.	3.6	5
45	Impedance flow cytometry for viability analysis of Corynebacterium glutamicum. Journal of Microbiological Methods, 2021, 191, 106347.	1.6	5
46	Online estimation of changing metabolic capacities in continuous <i>Corynebacterium glutamicum</i> cultivations growing on a complex sugar mixture. Biotechnology and Bioengineering, 2022, 119, 575-590.	3.3	5
47	Umwandlung von<i>Escherichia coli</i>Proteomembranen in artifizielle Chloroplasten durch molekulare Photokatalyse. Angewandte Chemie, 2022, 134, .	2.0	2
48	Chassis organism from Corynebacterium glutamicum â€“ Genome reduction as a tool toward improved strains for synthetic biology and industrial biotechnology. New Biotechnology, 2016, 33, S25.	4.4	1