

# Gerd M Seibold

## List of Publications by Year in descending order

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48  
papers

1,490  
citations

331259

21  
h-index

329751

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 <i>Corynebacterium glutamicum</i> strain: Growth and lysine production. <i>Journal of Biotechnology</i> , 2006, 124, 381-391.	1.9	122
2	Phosphotransferase System-Independent Glucose Utilization in <i>Corynebacterium glutamicum</i> by Inositol Permeases and Glucokinases. <i>Applied and Environmental Microbiology</i> , 2011, 77, 3571-3581.	1.4	103
3	Carbohydrate metabolism in <i>Corynebacterium glutamicum</i> and applications for the metabolic engineering of l-lysine production strains. <i>Applied Microbiology and Biotechnology</i> , 2010, 86, 1313-1322.	1.7	102
4	Chassis organism from <i>Corynebacterium glutamicum</i> – a top-down approach to identify and delete irrelevant gene clusters. <i>Biotechnology Journal</i> , 2015, 10, 290-301.	1.8	102
5	Glucosamine as carbon source for amino acid-producing <i>Corynebacterium glutamicum</i> . <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 1679-1687.	1.7	91
6	Real-time PCR quantification of bacterial adhesion to Caco-2 cells: Competition between bifidobacteria and enteropathogens. <i>Research in Microbiology</i> , 2005, 156, 887-895.	1.0	69
7	Protein S-Mycothiolation Functions as Redox-Switch and Thiol Protection Mechanism in <i>Corynebacterium glutamicum</i> Under Hypochlorite Stress. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 589-605.	2.5	68
8	<i>Corynebacterium glutamicum</i> Chassis C1*: Building and Testing a Novel Platform Host for Synthetic Biology and Industrial Biotechnology. <i>ACS Synthetic Biology</i> , 2018, 7, 132-144.	1.9	63
9	The glgX gene product of <i>Corynebacterium glutamicum</i> is required for glycogen degradation and for fast adaptation to hyperosmotic stress. <i>Microbiology (United Kingdom)</i> , 2007, 153, 2212-2220.	0.7	61
10	Engineering of <i>Corynebacterium glutamicum</i> for growth and l-lysine and lycopene production from N-acetyl-glucosamine. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 5633-5643.	1.7	60
11	Glycogen formation in <i>Corynebacterium glutamicum</i> and role of ADP-glucose pyrophosphorylase. <i>Microbiology (United Kingdom)</i> , 2007, 153, 1275-1285.	0.7	49
12	Increased Glucose Utilization in <i>Corynebacterium glutamicum</i> by Use of Maltose, and Its Application for the Improvement of L-Valine Productivity. <i>Applied and Environmental Microbiology</i> , 2010, 76, 370-374.	1.4	48
13	Phosphotransferase System-Mediated Glucose Uptake Is Repressed in Phosphoglucoisomerase-Deficient <i>Corynebacterium glutamicum</i> Strains. <i>Applied and Environmental Microbiology</i> , 2013, 79, 2588-2595.	1.4	39
14	Roles of maltodextrin and glycogen phosphorylases in maltose utilization and glycogen metabolism in <i>Corynebacterium glutamicum</i> . <i>Microbiology (United Kingdom)</i> , 2009, 155, 347-358.	0.7	38
15	Link between Phosphate Starvation and Glycogen Metabolism in <i>Corynebacterium glutamicum</i> , Revealed by Metabolomics. <i>Applied and Environmental Microbiology</i> , 2010, 76, 6910-6919.	1.4	33
16	Arabitol Metabolism of <i>Corynebacterium glutamicum</i> and Its Regulation by AtIR. <i>Journal of Bacteriology</i> , 2012, 194, 941-955.	1.0	32
17	Real Time Monitoring of NADPH Concentrations in <i>Corynebacterium glutamicum</i> and <i>Escherichia coli</i> via the Genetically Encoded Sensor mBFP. <i>Frontiers in Microbiology</i> , 2018, 9, 2564.	1.5	30
18	A simple dual-inducible CRISPR interference system for multiple gene targeting in <i>Corynebacterium glutamicum</i> . <i>Plasmid</i> , 2019, 103, 25-35.	0.4	28

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19	Impact of a new glucose utilization pathway in amino acid-producing <i>Corynebacterium glutamicum</i> . <i>Bioengineered Bugs</i> , 2011, 2, 291-295.	2.0	25
20	The transcriptional regulators RamA and RamB are involved in the regulation of glycogen synthesis in <i>Corynebacterium glutamicum</i> . <i>Microbiology (United Kingdom)</i> , 2010, 156, 1256-1263.	0.7	21
21	Production of the compatible solute $\alpha$ -D-glucosylglycerol by metabolically engineered <i>Corynebacterium glutamicum</i> . <i>Microbial Cell Factories</i> , 2018, 17, 94.	1.9	21
22	The <i>glgB</i> -encoded glycogen branching enzyme is essential for glycogen accumulation in <i>Corynebacterium glutamicum</i> . <i>Microbiology (United Kingdom)</i> , 2011, 157, 3243-3251.	0.7	20
23	Characterization of the biofilm phenotype of a <i>Listeria monocytogenes</i> mutant deficient in agr peptide sensing. <i>MicrobiologyOpen</i> , 2019, 8, e00826.	1.2	20
24	Maltose Uptake by the Novel ABC Transport System MusEFGK <sub>2</sub> Causes Increased Expression of <i>ptsG</i> in <i>Corynebacterium glutamicum</i> . <i>Journal of Bacteriology</i> , 2013, 195, 2573-2584.	1.0	19
25	Inactivation of the phosphoglucomutase gene <i>pgm</i> in <i>Corynebacterium glutamicum</i> affects cell shape and glycogen metabolism. <i>Bioscience Reports</i> , 2013, 33, .	1.1	15
26	Coupling Molecular Photocatalysis to Enzymatic Conversion. <i>ChemCatChem</i> , 2017, 9, 4369-4376.	1.8	15
27	Establishing recombinant production of pediocin PA-1 in <i>Corynebacterium glutamicum</i> . <i>Metabolic Engineering</i> , 2021, 68, 34-45.	3.6	15
28	Intracellular pHluorin as Sensor for Easy Assessment of Bacteriocin-Induced Membrane-Damage in <i>Listeria monocytogenes</i> . <i>Frontiers in Microbiology</i> , 2018, 9, 3038.	1.5	14
29	Digital models in biotechnology: Towards multi-scale integration and implementation. <i>Biotechnology Advances</i> , 2022, 60, 108015.	6.0	14
30	Recombinant production of the lantibiotic nisin using <i>Corynebacterium glutamicum</i> in a two-step process. <i>Microbial Cell Factories</i> , 2022, 21, 11.	1.9	13
31	Transcription of Sialic Acid Catabolism Genes in <i>Corynebacterium glutamicum</i> Is Subject to Catabolite Repression and Control by the Transcriptional Repressor NanR. <i>Journal of Bacteriology</i> , 2016, 198, 2204-2218.	1.0	12
32	Construction of pOGduet – An inducible, bicistronic vector for synthesis of recombinant proteins in <i>Corynebacterium glutamicum</i> . <i>Plasmid</i> , 2018, 95, 11-15.	0.4	11
33	Switching the Mechanism of NADH Photooxidation by Supramolecular Interactions. <i>Chemistry - A European Journal</i> , 2021, 27, 16840-16845.	1.7	11
34	Transforming <i>Escherichia coli</i> Proteomembranes into Artificial Chloroplasts Using Molecular Photocatalysis. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	11
35	The $\alpha$ -Glucan Phosphorylase MalP of <i>Corynebacterium glutamicum</i> Is Subject to Transcriptional Regulation and Competitive Inhibition by ADP-Glucose. <i>Journal of Bacteriology</i> , 2015, 197, 1394-1407.	1.0	10
36	The Industrial Organism <i>Corynebacterium glutamicum</i> Requires Mycothiol as Antioxidant to Resist Against Oxidative Stress in Bioreactor Cultivations. <i>Antioxidants</i> , 2020, 9, 969.	2.2	10

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37	Metabolic Engineering of <i>Corynebacterium glutamicum</i> for Production of UDP-N-Acetylglucosamine. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 748510.	2.0	9
38	Substrate-dependent cluster density dynamics of <i>Corynebacterium glutamicum</i> phosphotransferase system permeases. <i>Molecular Microbiology</i> , 2019, 111, 1335-1354.	1.2	8
39	Evolving a New Efficient Mode of Fructose Utilization for Improved Bioproduction in <i>Corynebacterium glutamicum</i> . <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 669093.	2.0	7
40	Angicin, a novel bacteriocin of <i>Streptococcus anginosus</i> . <i>Scientific Reports</i> , 2021, 11, 24377.	1.6	7
41	Time-resolved ATP measurements during vesicle respiration. <i>Talanta</i> , 2019, 205, 120083.	2.9	6
42	Transcription of <i>malP</i> is subject to phosphotransferase system-dependent regulation in <i>Corynebacterium glutamicum</i> . <i>Microbiology (United Kingdom)</i> , 2015, 161, 1830-1843.	0.7	6
43	Visualizing the pH in <i>Escherichia coli</i> Colonies via the Sensor Protein <i>mCherryEA</i> Allows High-Throughput Screening of Mutant Libraries. <i>MSystems</i> , 2022, 7, e0021922.	1.7	6
44	Comparison of noninvasive, in-situ and external monitoring of microbial growth in fed-batch cultivations in <i>Corynebacterium glutamicum</i> . <i>Biochemical Engineering Journal</i> , 2021, 170, 107989.	1.8	5
45	Impedance flow cytometry for viability analysis of <i>Corynebacterium glutamicum</i> . <i>Journal of Microbiological Methods</i> , 2021, 191, 106347.	0.7	5
46	Online estimation of changing metabolic capacities in continuous <i>Corynebacterium glutamicum</i> cultivations growing on a complex sugar mixture. <i>Biotechnology and Bioengineering</i> , 2022, 119, 575-590.	1.7	5
47	Umwandlung von <i>Escherichia coli</i> Proteomembranen in artifizielle Chloroplasten durch molekulare Photokatalyse. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	2
48	Chassis organism from <i>Corynebacterium glutamicum</i> – Genome reduction as a tool toward improved strains for synthetic biology and industrial biotechnology. <i>New Biotechnology</i> , 2016, 33, S25.	2.4	1