

# Claes Gustafsson

## List of Publications by Citations

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35  
papers

3,258  
citations

24  
h-index

37  
g-index

37  
ext. papers

3,575  
ext. citations

8.7  
avg, IF

4.77  
L-index

#	Paper	IF	Citations
35	Codon bias and heterologous protein expression. <i>Trends in Biotechnology</i> , <b>2004</b> , 22, 346-53	15.1	870
34	Multiple genetic modifications of the erythromycin polyketide synthase to produce a library of novel "unnatural" natural products. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1999</b> , 96, 1846-51	11.5	408
33	Design parameters to control synthetic gene expression in Escherichia coli. <i>PLoS ONE</i> , <b>2009</b> , 4, e7002	3.7	265
32	Gene Designer: a synthetic biology tool for constructing artificial DNA segments. <i>BMC Bioinformatics</i> , <b>2006</b> , 7, 285	3.6	254
31	Identification of likely orthologs of tobacco salicylic acid-binding protein 2 and their role in systemic acquired resistance in Arabidopsis thaliana. <i>Plant Journal</i> , <b>2008</b> , 56, 445-56	6.9	176
30	Directed evolution: the rational basis for irrational design. <i>Current Opinion in Structural Biology</i> , <b>2000</b> , 10, 421-7	8.1	113
29	Engineering genes for predictable protein expression. <i>Protein Expression and Purification</i> , <b>2012</b> , 83, 37-46		109
28	Identification of new RNA modifying enzymes by iterative genome search using known modifying enzymes as probes. <i>Nucleic Acids Research</i> , <b>1996</b> , 24, 3756-62	20.1	108
27	You're one in a googol: optimizing genes for protein expression. <i>Journal of the Royal Society Interface</i> , <b>2009</b> , 6 Suppl 4, S467-76	4.1	86
26	The spoU gene of Escherichia coli, the fourth gene of the spoT operon, is essential for tRNA (Gm18) 2'-O-methyltransferase activity. <i>Nucleic Acids Research</i> , <b>1997</b> , 25, 4093-7	20.1	79
25	A syntactic model to design and verify synthetic genetic constructs derived from standard biological parts. <i>Bioinformatics</i> , <b>2007</b> , 23, 2760-7	7.2	71
24	Gain-of-Function Mutagenesis of a Modular Polyketide Synthase. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 4309-4310	16.4	70
23	Engineering proteinase K using machine learning and synthetic genes. <i>BMC Biotechnology</i> , <b>2007</b> , 7, 16	3.5	64
22	Semi-synthetic DNA shuffling of aveC leads to improved industrial scale production of doramectin by Streptomyces avermitilis. <i>Metabolic Engineering</i> , <b>2005</b> , 7, 27-37	9.7	64
21	Identification of the 16S rRNA m5C967 methyltransferase from Escherichia coli. <i>Biochemistry</i> , <b>1999</b> , 38, 4053-7	3.2	60
20	Validation of RNAi silencing specificity using synthetic genes: salicylic acid-binding protein 2 is required for innate immunity in plants. <i>Plant Journal</i> , <b>2006</b> , 45, 863-8	6.9	59
19	Quantitative sequence-activity models (QSAM)--tools for sequence design. <i>Nucleic Acids Research</i> , <b>1993</b> , 21, 733-9	20.1	52

18	Optimizing the search algorithm for protein engineering by directed evolution. <i>Protein Engineering, Design and Selection</i> , <b>2003</b> , 16, 589-97	1.9	49
17	Designing genes for successful protein expression. <i>Methods in Enzymology</i> , <b>2011</b> , 498, 43-66	1.7	48
16	Engineering the aveC gene to enhance the ratio of doramectin to its CHC-B2 analogue produced in <i>Streptomyces avermitilis</i> . <i>Biotechnology and Bioengineering</i> , <b>2003</b> , 82, 359-69	4.9	39
15	Systematic variation of amino acid substitutions for stringent assessment of pairwise covariation. <i>Journal of Molecular Biology</i> , <b>2003</b> , 328, 1061-9	6.5	37
14	Synergistic modular promoter and gene optimization to push cellulase secretion by <i>Pichia pastoris</i> beyond existing benchmarks. <i>Journal of Biotechnology</i> , <b>2014</b> , 191, 187-95	3.7	33
13	Predicting enzyme function from protein sequence. <i>Current Opinion in Chemical Biology</i> , <b>2005</b> , 9, 202-9	9.7	29
12	Mapping of amino acid substitutions conferring herbicide resistance in wheat glutathione transferase. <i>ACS Synthetic Biology</i> , <b>2015</b> , 4, 221-7	5.7	26
11	Putting engineering back into protein engineering: bioinformatic approaches to catalyst design. <i>Current Opinion in Biotechnology</i> , <b>2003</b> , 14, 366-70	11.4	23
10	Broadly neutralizing antibodies overcome SARS-CoV-2 Omicron antigenic shift. <b>2021</b> ,		16
9	The Best Model of a Cat Is Several Cats. <i>Trends in Biotechnology</i> , <b>2016</b> , 34, 207-213	15.1	11
8	Engineered protein function by selective amino acid diversification. <i>Methods</i> , <b>2004</b> , 32, 416-27	4.6	11
7	Exploration of sequence space for protein engineering. <i>Journal of Molecular Recognition</i> , <b>2001</b> , 14, 308-146		11
6	For anyone who ever said there's no such thing as a poetic gene. <i>Nature</i> , <b>2009</b> , 458, 703-703	50.4	4
5	Empirical Biocatalyst Engineering: Escaping the Tyranny of High-Throughput Screening. <i>ACS Symposium Series</i> , <b>2005</b> , 37-50	0.4	4
4	Leveraging Gene Synthesis, Advanced Cloning Techniques, and Machine Learning for Metabolic Pathway Engineering <b>2016</b> , 53-71		4
3	Library Format for Bioengineering. <i>Genetic Engineering and Biotechnology News</i> , <b>2013</b> , 33, 18-19	0.6	2
2	Synthetic Life: Ethobricks for a New Biology 273-285		
1	Isolation of genes encoding tRNA binding proteins by probing an expression library with unmodified tRNA. <i>Genetic Analysis, Techniques and Applications</i> , <b>1996</b> , 13, 45-7		

