

Claes Gustafsson

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

3,844
citations

236912

25
h-index

414395

32
g-index

37
all docs

37
docs citations

37
times ranked

4647
citing authors

#	ARTICLE	IF	CITATIONS
1	Codon bias and heterologous protein expression. Trends in Biotechnology, 2004, 22, 346-353.	9.3	1,045
2	Multiple genetic modifications of the erythromycin polyketide synthase to produce a library of novel "unnatural" natural products. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 1846-1851.	7.1	459
3	Gene Designer: a synthetic biology tool for constructing artificial DNA segments. BMC Bioinformatics, 2006, 7, 285.	2.6	302
4	Design Parameters to Control Synthetic Gene Expression in Escherichia coli. PLoS ONE, 2009, 4, e7002.	2.5	298
5	Identification of likely orthologs of tobacco salicylic acid-binding protein 2 and their role in systemic acquired resistance in <i>Arabidopsis thaliana</i> . Plant Journal, 2008, 56, 445-456.	5.7	215
6	Engineering genes for predictable protein expression. Protein Expression and Purification, 2012, 83, 37-46.	1.3	144
7	Directed evolution: the "rational" basis for "irrational" design. Current Opinion in Structural Biology, 2000, 10, 421-427.	5.7	133
8	Identification of new RNA modifying enzymes by iterative genome search using known modifying enzymes as probes. Nucleic Acids Research, 1996, 24, 3756-3762.	14.5	120
9	The spoII gene of Escherichia coli, the fourth gene of the spoT operon, is essential for tRNA (Gm18) 2'-O-methyltransferase activity. Nucleic Acids Research, 1997, 25, 4093-4097.	14.5	93
10	You're one in a googol: optimizing genes for protein expression. Journal of the Royal Society Interface, 2009, 6, S467-76.	3.4	92
11	Engineering proteinase K using machine learning and synthetic genes. BMC Biotechnology, 2007, 7, 16.	3.3	88
12	A syntactic model to design and verify synthetic genetic constructs derived from standard biological parts. Bioinformatics, 2007, 23, 2760-2767.	4.1	78
13	Gain-of-Function Mutagenesis of a Modular Polyketide Synthase. Journal of the American Chemical Society, 1997, 119, 4309-4310.	13.7	77
14	Semi-synthetic DNA shuffling of aveC leads to improved industrial scale production of doramectin by Streptomyces avermitilis. Metabolic Engineering, 2005, 7, 27-37.	7.0	73
15	Validation of RNAi silencing specificity using synthetic genes: salicylic acid-binding protein 2 is required for innate immunity in plants. Plant Journal, 2006, 45, 863-868.	5.7	69
16	Identification of the 16S rRNA m5C967 Methyltransferase from Escherichia coli. Biochemistry, 1999, 38, 4053-4057.	2.5	65
17	Optimizing the search algorithm for protein engineering by directed evolution. Protein Engineering, Design and Selection, 2003, 16, 589-597.	2.1	59
18	Quantitative sequence-activity models (QSAM) tools for sequence design. Nucleic Acids Research, 1993, 21, 733-739.	14.5	58

#	ARTICLE	IF	CITATIONS
19	Designing Genes for Successful Protein Expression. <i>Methods in Enzymology</i> , 2011, 498, 43-66.	1.0	51
20	Engineering the <i>aveC</i> gene to enhance the ratio of doramectin to its CHC-B2 analogue produced in <i>Streptomyces avermitilis</i> . <i>Biotechnology and Bioengineering</i> , 2003, 82, 359-369.	3.3	42
21	Systematic Variation of Amino Acid Substitutions for Stringent Assessment of Pairwise Covariation. <i>Journal of Molecular Biology</i> , 2003, 328, 1061-1069.	4.2	42
22	Synergistic modular promoter and gene optimization to push cellulase secretion by <i>Pichia pastoris</i> beyond existing benchmarks. <i>Journal of Biotechnology</i> , 2014, 191, 187-195.	3.8	41
23	Mapping of Amino Acid Substitutions Conferring Herbicide Resistance in Wheat Glutathione Transferase. <i>ACS Synthetic Biology</i> , 2015, 4, 221-227.	3.8	32
24	Putting engineering back into protein engineering: bioinformatic approaches to catalyst design. <i>Current Opinion in Biotechnology</i> , 2003, 14, 366-370.	6.6	31
25	Predicting enzyme function from protein sequence. <i>Current Opinion in Chemical Biology</i> , 2005, 9, 202-209.	6.1	31
26	The Best Model of a Cat Is Several Cats. <i>Trends in Biotechnology</i> , 2016, 34, 207-213.	9.3	14
27	Engineered protein function by selective amino acid diversification. <i>Methods</i> , 2004, 32, 416-427.	3.8	13
28	Exploration of sequence space for protein engineering. <i>Journal of Molecular Recognition</i> , 2001, 14, 308-314.	2.1	12
29	For anyone who ever said there's no such thing as a poetic gene. <i>Nature</i> , 2009, 458, 703-703.	27.8	8
30	Leveraging Gene Synthesis, Advanced Cloning Techniques, and Machine Learning for Metabolic Pathway Engineering. , 2016, , 53-71.		6
31	Empirical Biocatalyst Engineering: Escaping the Tyranny of High-Throughput Screening. <i>ACS Symposium Series</i> , 2005, , 37-50.	0.5	4
32	Library Format for Bioengineering. <i>Genetic Engineering and Biotechnology News</i> , 2013, 33, 18-19.	0.1	2
33	Isolation of genes encoding tRNA binding proteins by probing an expression library with unmodified tRNA. <i>Genetic Analysis, Techniques and Applications</i> , 1996, 13, 45-47.	1.5	0
34	Synthetic Life: Ethobricks for a New Biology. , 0, , 273-285.		0