thomas drepper

List of Publications by Year
in descending order

29 papers	931 citations	394421 19 h-index	454955 30 g-index
30 all docs	30 docs citations	30 times ranked	1258 citing authors

#	Article	IF	Citations
1	The photophysics of LOV-based fluorescent proteins â€" new tools for cell biology. Photochemical and Photobiological Sciences, 2014, 13, 875-883.	2.9	95
2	Flavin Mononucleotide-Based Fluorescent Reporter Proteins Outperform Green Fluorescent Protein-Like Proteins as Quantitative In Vivo Real-Time Reporters. Applied and Environmental Microbiology, 2010, 76, 5990-5994.	3.1	94
3	A microfluidic co-cultivation platform to investigate microbial interactions at defined microenvironments. Lab on A Chip, 2019, 19, 98-110.	6.0	79
4	Lights on and action! Controlling microbial gene expression by light. Applied Microbiology and Biotechnology, 2011, 90, 23-40.	3.6	58
5	Discovery of the first lightâ€dependent protochlorophyllide oxidoreductase in anoxygenic phototrophic bacteria. Molecular Microbiology, 2014, 93, 1066-1078.	2.5	44
6	Natural biocide cocktails: Combinatorial antibiotic effects of prodigiosin and biosurfactants. PLoS ONE, 2018, 13, e0200940.	2.5	41
7	Light-Controlled Cell Factories: Employing Photocaged Isopropyl-Î²- <scp>d</scp> -Thiogalactopyranoside for Light-Mediated Optimization of lac Promoter-Based Gene Expression and (+)-Valencene Biosynthesis in Corynebacterium glutamicum. Applied and Environmental Microbiology, 2016, 82, 6141-6149.	3.1	40
8	Light-responsive control of bacterial gene expression: precise triggering of thelacpromoter activity using photocaged IPTG. Integrative Biology (United Kingdom), 2014, 6, 755-765.	1.3	39
9	An optogenetic toolbox of LOV-based photosensitizers for light-driven killing of bacteria. Scientific Reports, 2018, 8, 15021.	3.3	37
10	Structure and function of a short LOV protein from the marine phototrophic bacterium Dinoroseobacter shibae. BMC Microbiology, 2015, 15, 30.	3.3	36
11	Comparative Single-Cell Analysis of Different E. coli Expression Systems during Microfluidic Cultivation. PLoS ONE, 2016, 11, e0160711.	2.5	35
12	The photosynthetic bacteria Rhodobacter capsulatus and Synechocystis sp. PCC 6803 as new hosts for cyclic plant triterpene biosynthesis. PLoS ONE, 2017, 12, e0189816.	2.5	33
13	A novel FbFP-based biosensor toolbox for sensitive in vivo determination of intracellular pH. Journal of Biotechnology, 2017, 258, 25-32.	3.8	31
14	Photocaged Arabinose: A Novel Optogenetic Switch for Rapid and Gradual Control of Microbial Gene Expression. ChemBioChem, 2016, 17, 296-299.	2.6	26
15	Emerging Solutions for in Vivo Biocatalyst Immobilization: Tailor-Made Catalysts for Industrial Biocatalysis. ACS Sustainable Chemistry and Engineering, 2021, 9, 8919-8945.	6.7	26
16	Advanced in vivo applications of blue light photoreceptors as alternative fluorescent proteins. Photochemical and Photobiological Sciences, 2013, 12, 1125-1134.	2.9	25
17	Preparation of Cyclic Prodiginines by Mutasynthesis in Pseudomonas putida KT2440. ChemBioChem, 2018, 19, 1545-1552.	2.6	25
18	Genetically Encoded Photosensitizers as Light-Triggered Antimicrobial Agents. International Journal of Molecular Sciences, 2019, 20, 4608.	4.1	24

#	Article	IF	Citations
19	Phototrophic purple bacteria as optoacoustic in vivo reporters of macrophage activity. Nature Communications, 2019, 10, 1191.	12.8	22
20	Pseudomonas putida rDNA is a favored site for the expression of biosynthetic genes. Scientific Reports, 2019, 9, 7028.	3.3	20
21	Novel Tools for the Functional Expression of Metagenomic DNA. Methods in Molecular Biology, 2017, 1539, 159-196.	0.9	17
22	Heterologous Production of Î²-Caryophyllene and Evaluation of Its Activity against Plant Pathogenic Fungi. Microorganisms, 2021, 9, 168.	3.6	15
23	Protocols for yTREX /Tn5â€based gene cluster expression in Pseudomonas putida. Microbial Biotechnology, 2020, 13, 250-262.	4.2	14
24	The Plant Sesquiterpene Nootkatone Efficiently Reduces Heterodera schachtii Parasitism by Activating Plant Defense. International Journal of Molecular Sciences, 2020, 21, 9627.	4.1	11
25	Heterologous High-Level Gene Expression in the Photosynthetic Bacterium Rhodobacter capsulatus. Methods in Molecular Biology, 2012, 824, 251-269.	0.9	11
26	Effect of Photocaged Isopropyl Î²â€‹scp›d‹/scp›â€‹1â€‹thiogalactopyranoside Solubility on the Light Responsiveness of Laclâ€‹controlled Expression Systems in Different Bacteria. ChemBioChem, 2021, 22, 539-547.	2.6	9
27	Biosynthesis of cycloartenol by expression of plant and bacterial oxidosqualene cyclases in engineered Rhodobacter capsulatus. Journal of Biotechnology, 2019, 306, 100014.	3.8	7
28	Optochemical Control of Bacterial Gene Expression: Novel Photocaged Compounds for Different Promoter Systems. ChemBioChem, 2022, 23, e202100467.	2.6	7
29	Photocaged Carbohydrates: Versatile Tools for Controlling Gene Expression by Light. Synthesis, 2016, 49, 42-52.	2.3	5