Jan-Willem de Gier

List of Publications by Year
in descending order

83	6,755	53794 45	62596 80
papers	citations	h-index	g-index

86	86	86	4973
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Strategies to Enhance Periplasmic Recombinant Protein Production Yields in Escherichia coli. Frontiers in Bioengineering and Biotechnology, 2021, 9, 797334.	4.1	11
2	N-Linked Glycan Sites on the Influenza A Virus Neuraminidase Head Domain Are Required for Efficient Viral Incorporation and Replication. Journal of Virology, 2020, 94, .	3.4	15
3	Cotranslational folding of alkaline phosphatase in the periplasm of <scp><i>Escherichia coli</i></scp>. Protein Science, 2020, 29, 2028-2037.	7.6	9
4	A mycobacterial ABC transporter mediates the uptake of hydrophilic compounds. Nature, 2020, 580, 409-412.	27.8	72
5	Mutagenesis-Based Characterization and Improvement of a Novel Inclusion Body Tag. Frontiers in Bioengineering and Biotechnology, 2020, 7, 442.	4.1	4
6	Enhancing Recombinant Protein Yields in the E. coli Periplasm by Combining Signal Peptide and Production Rate Screening. Frontiers in Microbiology, 2019, 10, 1511.	3.5	39
7	Bicistronic Design-Based Continuous and High-Level Membrane Protein Production in <i>Escherichia coli</i>. ACS Synthetic Biology, 2019, 8, 1685-1690.	3.8	23
8	Escherichia coli Can Adapt Its Protein Translocation Machinery for Enhanced Periplasmic Recombinant Protein Production. Frontiers in Bioengineering and Biotechnology, 2019, 7, 465.	4.1	8
9	Optimizing Recombinant Protein Production in the Escherichia coli Periplasm Alleviates Stress. Applied and Environmental Microbiology, 2018, 84, .	3.1	41
10	SRP, FtsY, DnaK and YidC Are Required for the Biogenesis of the E. coli Tail-Anchored Membrane Proteins DjlC and Flk. Journal of Molecular Biology, 2018, 430, 389-403.	4.2	28
11	Revealing the mechanisms of membrane protein export by virulence-associated bacterial secretion systems. Nature Communications, 2018, 9, 3467.	12.8	28
12	Shaping Escherichia coli for recombinant membrane protein production. FEMS Microbiology Letters, 2018, 365, .	1.8	9
13	Functional and structural characterization of an ECF-type ABC transporter for vitamin B12. ELife, 2018, 7, .	6.0	57
14	Cysteine-mediated decyanation of vitamin B12 by the predicted membrane transporter BtuM. Nature Communications, 2018, 9, 3038.	12.8	31
15	Tailoring <i>Escherichia coli</i> for the <scp>l</scp>-Rhamnose P_{BAD} Promoter-Based Production of Membrane and Secretory Proteins. ACS Synthetic Biology, 2017, 6, 985-994.	3.8	28
16	Application of an E. coli signal sequence as a versatile inclusion body tag. Microbial Cell Factories, 2017, 16, 50.	4.0	48
17	Isolation and characterization of the E. coli membrane protein production strain Mutant56(DE3). Scientific Reports, 2017, 7, 45089.	3.3	38
18	Isolating Escherichia coli strains for recombinant protein production. Cellular and Molecular Life Sciences, 2017, 74, 891-908.	5.4	25

#	Article	IF	Citations
19	The tunable pReX expression vector enables optimizing the T7-based production of membrane and secretory proteins in E. coli. Microbial Cell Factories, 2017, 16, 226.	4.0	10
20	Optimizing E. coli-Based Membrane Protein Production Using Lemo21(DE3) or pReX and GFP-Fusions. Methods in Molecular Biology, 2017, 1586, 109-126.	0.9	6
21	High-level production of membrane proteins in E. coli BL21(DE3) by omitting the inducer IPTG. Microbial Cell Factories, 2015, 14, 142.	4.0	54
22	De-convoluting the Genetic Adaptations of E.Âcoli C41(DE3) in Real Time Reveals How Alleviating Protein Production Stress Improves Yields. Cell Reports, 2015, 10, 1758-1766.	6.4	60
23	Autotransporter-Based Antigen Display in Bacterial Ghosts. Applied and Environmental Microbiology, 2015, 81, 726-735.	3.1	22
24	An autotransporter display platform for the development of multivalent recombinant bacterial vector vaccines. Microbial Cell Factories, 2014, 13, 162.	4.0	38
25	Bacterial-based membrane protein production. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 1739-1749.	4.1	63
26	MemStar: A oneâ€shot <i>Escherichia coli</i>â€based approach for highâ€level bacterial membrane protein production. FEBS Letters, 2014, 588, 3761-3769.	2.8	27
27	Decoration of Outer Membrane Vesicles with Multiple Antigens by Using an Autotransporter Approach. Applied and Environmental Microbiology, 2014, 80, 5854-5865.	3.1	95
28	Optimizing heterologous protein production in the periplasm of E. coli by regulating gene expression levels. Microbial Cell Factories, 2013, 12, 24.	4.0	114
29	Optimizing E. coli-Based Membrane Protein Production Using Lemo21(DE3) and GFP-Fusions. Methods in Molecular Biology, 2013, 1033, 381-400.	0.9	14
30	Optimizing Membrane Protein Overexpression in the Escherichia coli strain Lemo21(DE3). Journal of Molecular Biology, 2012, 423, 648-659.	4.2	132
31	A structurally informed autotransporter platform for efficient heterologous protein secretion and display. Microbial Cell Factories, 2012, 11, 85.	4.0	43
32	Biogenesis of inner membrane proteins in Escherichia coli. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 965-976.	1.0	64
33	Consequences of the Overexpression of a Eukaryotic Membrane Protein, the Human KDEL Receptor, in Escherichia coli. Journal of Molecular Biology, 2011, 407, 532-542.	4.2	47
34	Escherichia coli Peptide Binding Protein OppA Has a Preference for Positively Charged Peptides. Journal of Molecular Biology, 2011, 414, 75-85.	4.2	59
35	Role for Escherichia coli YidD in Membrane Protein Insertion. Journal of Bacteriology, 2011, 193, 5242-5251.	2.2	20
36	Consequences of Depletion of the Signal Recognition Particle in Escherichia coli. Journal of Biological Chemistry, 2011, 286, 4598-4609.	3.4	36

#	Article	IF	Citations
37	Revolutionizing membrane protein overexpression in bacteria. Microbial Biotechnology, 2010, 3, 403-411.	4.2	55
38	The Bam (Omp85) complex is involved in secretion of the autotransporter haemoglobin protease. Microbiology (United Kingdom), 2009, 155, 3982-3991.	1.8	121
39	YidC is required for the assembly of the MscL homopentameric pore. FEBS Journal, 2009, 276, 4891-4899.	4.7	22
40	Detection of crossâ€links between FtsH, YidC, HflK/C suggests a linked role for these proteins in quality control upon insertion of bacterial inner membrane proteins. FEBS Letters, 2008, 582, 1419-1424.	2.8	66
41	Immobilization of the first dimension in 2D blue native/SDSâ€“PAGE allows the relative quantification of membrane proteomes. Methods, 2008, 46, 48-53.	3.8	17
42	The structure of the efflux pump AcrB in complex with bile acid. Molecular Membrane Biology, 2008, 25, 677-682.	2.0	60
43	Tuning <i>Escherichia coli</i> for membrane protein overexpression. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 14371-14376.	7.1	378
44	Biogenesis of MalF and the MalFGK2 Maltose Transport Complex in Escherichia coli Requires YidC. Journal of Biological Chemistry, 2008, 283, 17881-17890.	3.4	58
45	Effects of SecE Depletion on the Inner and Outer Membrane Proteomes of <i>Escherichia coli</i>. Journal of Bacteriology, 2008, 190, 3505-3525.	2.2	49
46	Consequences of Membrane Protein Overexpression in Escherichia coli. Molecular and Cellular Proteomics, 2007, 6, 1527-1550.	3.8	302
47	Limited tolerance towards folded elements during secretion of the autotransporter Hbp. Molecular Microbiology, 2007, 63, 1524-1536.	2.5	105
48	New Escherichia coli outer membrane proteins identified through prediction and experimental verification. Protein Science, 2006, 15, 884-889.	7.6	43
49	Optimization of membrane protein overexpression and purification using GFP fusions. Nature Methods, 2006, 3, 303-313.	19.0	297
50	Rationalizing membrane protein overexpression. Trends in Biotechnology, 2006, 24, 364-371.	9.3	238
51	Distinct Requirements for Translocation of the N-tail and C-tail of the Escherichia coli Inner Membrane Protein CyoA. Journal of Biological Chemistry, 2006, 281, 10002-10009.	3.4	72
52	Defining the Role of the Escherichia coli Chaperone SecB Using Comparative Proteomics*. Journal of Biological Chemistry, 2006, 281, 10024-10034.	3.4	70
53	A scalable, GFP-based pipeline for membrane protein overexpression screening and purification. Protein Science, 2005, 14, 2011-2017.	7.6	121
54	BIOGENESIS OF INNER MEMBRANE PROTEINS IN <i>ESCHERICHIA COLI</i>. Annual Review of Microbiology, 2005, 59, 329-355.	7.3	177

#	Article	IF	Citations
55	Targeting and Translocation of Two Lipoproteins in Escherichia coli via the SRP/Sec/YidC Pathway. Journal of Biological Chemistry, 2004, 279, 31026-31032.	3.4	45
56	Experimentally based topology models for <i>E. coli</i> inner membrane proteins. Protein Science, 2004, 13, 937-945.	7.6	90
57	F1F0ATP synthase subunit c is targeted by the SRP to YidC in theE. coliinner membrane. FEBS Letters, 2004, 576, 97-100.	2.8	78
58	The ribosome and YidC. EMBO Reports, 2003, 4, 939-943.	4.5	38
59	Defining the Regions of Escherichia coli YidC That Contribute to Activity. Journal of Biological Chemistry, 2003, 278, 48965-48972.	3.4	84
60	Rapid topology mapping of <i>Escherichia coli</i> inner-membrane proteins by prediction and PhoA/GFP fusion analysis. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 2690-2695.	7.1	185
61	Secâ€dependent membrane protein insertion: sequential interaction of nascent FtsQ with SecY and YidC. EMBO Reports, 2001, 2, 524-529.	4.5	164
62	Complementation of bacterial SecE by a chloroplastic homologue. FEBS Letters, 2001, 498, 52-56.	2.8	24
63	YidC/Oxa1p/Alb3: evolutionarily conserved mediators of membrane protein assembly. FEBS Letters, 2001, 501, 1-5.	2.8	125
64	Green fluorescent protein as an indicator to monitor membrane protein overexpression in Escherichia coli. FEBS Letters, 2001, 507, 220-224.	2.8	210
65	Biogenesis of inner membrane proteins in <i>Escherichia coli</i>. Molecular Microbiology, 2001, 40, 314-322.	2.5	90
66	Function of YidC for the Insertion of M13 Procoat Protein inEscherichia coli. Journal of Biological Chemistry, 2001, 276, 34847-34852.	3.4	123
67	YidC, the Escherichia coli homologue of mitochondrial Oxa1p, is a component of the Sec translocase. EMBO Journal, 2000, 19, 542-549.	7.8	357
68	The Signal Recognition Particle-targeting Pathway Does Not Necessarily Deliver Proteins to the Sec-translocase inEscherichia coli. Journal of Biological Chemistry, 1999, 274, 20068-20070.	3.4	37
69	Insertion of Leader Peptidase into the Thylakoid Membrane during Synthesis in a Chloroplast Translation System. Plant Cell, 1999, 11, 1553-1564.	6.6	15
70	Competition between Sec- and TAT-dependent protein translocation in Escherichia coli. EMBO Journal, 1999, 18, 2982-2990.	7.8	249
71	The Escherichia coli SRP and SecB targeting pathways converge at the translocon. EMBO Journal, 1998, 17, 2504-2512.	7.8	271
72	Membrane Topology of the 60-kDa Oxa1p Homologue fromEscherichia coli. Journal of Biological Chemistry, 1998, 273, 30415-30418.	3.4	86

#	Article	IF	Citations
73	Differential use of the signal recognition particle translocase targeting pathway for inner membrane protein assembly in <i>Escherichia coli</i>. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 14646-14651.	7.1	119
74	TheE. coliSRP: preferences of a targeting factor. FEBS Letters, 1997, 408, 1-4.	2.8	60
75	Nascent membrane and presecretory proteins synthesized in <i>Escherichia coli</i> associate with signal recognition particle and trigger factor. Molecular Microbiology, 1997, 25, 53-64.	2.5	168
76	Assembly of a cytoplasmic membrane protein inEscherichia coliis dependent on the signal recognition particle. FEBS Letters, 1996, 399, 307-309.	2.8	151
77	Structural and functional analysis of aa3-type and cbb3-type cytochrome c oxidases of Paracoccus denitrificans reveals significant differences in proton-pump design. Molecular Microbiology, 1996, 20, 1247-1260.	2.5	100
78	The Oxidation of Methylamine in Paracoccus denitrificans. FEBS Journal, 1995, 229, 148-154.	0.2	16
79	Regulation of oxidative phosphorylation: The flexible respiratory network ofParacoccus denitrificans. Journal of Bioenergetics and Biomembranes, 1995, 27, 499-512.	2.3	42
80	Reversed electron transfer through the bc1complex enables a cytochrome c oxidase mutant (Î”aa3/cbb3) ofParacoccus denitrificansto grow on methylamine. FEBS Letters, 1995, 371, 267-270.	2.8	8
81	The terminal oxidases ofParacoccus denitrificans. Molecular Microbiology, 1994, 13, 183-196.	2.5	109
82	Oxidation of methylamine by aParacoccus denitrificansmutant impaired in the synthesis of thebc1complex and theaa3-type oxidase Evidence for the existence of an alternative cytochromecoxidase in this bacterium. FEBS Letters, 1992, 306, 23-26.	2.8	14
83	Functioning of the stable signal peptide of the pCloDF13-encoded bacteriocin release protein. Molecular Microbiology, 1991, 5, 393-399.	2.5	28