

Florian M Wurm

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

141
papers

7,513
citations

39
h-index

86
g-index

144
ext. papers

8,103
ext. citations

6
avg, IF

6.27
L-index

#	Paper	IF	Citations
141	High-Titer Neutralizing Antibodies against the SARS-CoV-2 Delta Variant Induced by Alhydroxyquim-II-Adjuvanted Trimeric Spike Antigens.. <i>Microbiology Spectrum</i> , 2022 , e0169521	8.9	0
140	Site-specific steric control of SARS-CoV-2 spike glycosylation 2021 ,		3
139	Considerations of the Impacts of Cell-Specific Growth and Production Rate on Clone Selection: A Simulation Study. <i>Processes</i> , 2021 , 9, 964	2.9	1
138	Naming CHO cells for bio-manufacturing: Genome plasticity and variant phenotypes of cell populations in bioreactors question the relevance of old names. <i>Biotechnology Journal</i> , 2021 , 16, e2100165	5.6	2
137	Boosted Pro-Inflammatory Activity in Human PBMCs by Lipopolysaccharide and SARS-CoV-2 Spike Protein Is Regulated by α 1-Antitrypsin. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
136	Trimeric SARS-CoV-2 Spike Proteins Produced from CHO Cells in Bioreactors Are High-Quality Antigens. <i>Processes</i> , 2020 , 8, 1539	2.9	10
135	Designs and Characterization of Subunit Ebola GP Vaccine Candidates: Implications for Immunogenicity. <i>Frontiers in Immunology</i> , 2020 , 11, 586595	8.4	3
134	The Delivery of α 1-Antitrypsin Therapy Through Transepidermal Route: Worthwhile to Explore. <i>Frontiers in Pharmacology</i> , 2020 , 11, 983	5.6	6
133	Analysis of volumetric mass transfer coefficient (k_L) in small- (250 mL) to large-scale (2500 L) orbitally shaken bioreactors. <i>3 Biotech</i> , 2020 , 10, 397	2.8	
132	Recombinant Proteins for Industrial versus Pharmaceutical Purposes: A Review of Process and Pricing. <i>Processes</i> , 2019 , 7, 476	2.9	39
131	Scalable Production of AAV Vectors in Orbitally Shaken HEK293 Cells. <i>Molecular Therapy - Methods and Clinical Development</i> , 2019 , 13, 14-26	6.4	12
130	Improved process conditions for increasing expression of MHC class II protein from a stable <i>Drosophila</i> S2 cell line. <i>Biotechnology Letters</i> , 2018 , 40, 85-92	3	
129	Fluid dynamics of flow fields in a disposable 600-mL orbitally shaken bioreactor. <i>Biochemical Engineering Journal</i> , 2018 , 129, 84-95	4.2	11
128	Studies on fluid dynamics of the flow field and gas transfer in orbitally shaken tubes. <i>Biotechnology Progress</i> , 2017 , 33, 192-200	2.8	26
127	Cloning of CHO Cells, Productivity and Genetic Stability: A Discussion. <i>Processes</i> , 2017 , 5, 20	2.9	54
126	Comparison of three transposons for the generation of highly productive recombinant CHO cell pools and cell lines. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 1234-43	4.9	34
125	Multigene expression in stable CHO cell pools generated with the piggyBac transposon system. <i>Biotechnology Progress</i> , 2016 , 32, 1308-1317	2.8	9

124	Manufacture of Recombinant Therapeutic Proteins Using Chinese Hamster Ovary Cells in Large-Scale Bioreactors 2016 , 327-353		5
123	Disposable orbitally shaken TubeSpin bioreactor 600 for Sf9 cell cultivation in suspension. <i>Analytical Biochemistry</i> , 2016 , 505, 26-8	3.1	8
122	A comparison of orbitally-shaken and stirred-tank bioreactors: pH modulation and bioreactor type affect CHO cell growth and protein glycosylation. <i>Biotechnology Progress</i> , 2016 , 32, 1174-1180	2.8	15
121	Rapid recombinant protein production from piggyBac transposon-mediated stable CHO cell pools. <i>Journal of Biotechnology</i> , 2015 , 200, 61-9	3.7	36
120	A simple plasmid-based transient gene expression method using High Five cells. <i>Journal of Biotechnology</i> , 2015 , 216, 67-75	3.7	21
119	Production of active glycosylation-deficient β secretase complex for crystallization studies. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 2516-26	4.9	4
118	Enhanced plasmid DNA utilization in transiently transfected CHO-DG44 cells in the presence of polar solvents. <i>Biotechnology Progress</i> , 2015 , 31, 1571-8	2.8	13
117	Transcriptional and post-transcriptional limitations of high-yielding, PEI-mediated transient transfection with CHO and HEK-293E cells. <i>Biotechnology Progress</i> , 2015 , 31, 541-9	2.8	18
116	Virus-free transient protein production in Sf9 cells. <i>Journal of Biotechnology</i> , 2014 , 171, 61-70	3.7	23
115	2.2 CHO History, CHO Evolution and CHO Genomics β n Unsolvable Enigma? 2014 , 38-59		
114	Peptone Supplementation of Culture Medium Has Variable Effects on the Productivity of CHO Cells. <i>International Journal of Molecular and Cellular Medicine</i> , 2014 , 3, 146-56	1.2	14
113	Numerical simulation of orbitally shaken viscous fluids with free surface. <i>International Journal for Numerical Methods in Fluids</i> , 2013 , 71, 294-315	1.9	24
112	High expression of the aspartate β glutamate carrier Aralar1 favors lactate consumption in CHO cell culture. <i>Pharmaceutical Bioprocessing</i> , 2013 , 1, 19-27		14
111	Study of the improved Sf9 transient gene expression process. <i>BMC Proceedings</i> , 2013 , 7, P19	2.3	78
110	Polyethyleneimine-based transient gene expression processes for suspension-adapted HEK-293E and CHO-DG44 cells. <i>Protein Expression and Purification</i> , 2013 , 92, 67-76	2	57
109	Lactate metabolism shift in CHO cell culture: the role of mitochondrial oxidative activity. <i>New Biotechnology</i> , 2013 , 30, 238-45	6.4	132
108	Disposable 600-mL orbitally shaken bioreactor for mammalian cell cultivation in suspension. <i>Biochemical Engineering Journal</i> , 2013 , 76, 6-12	4.2	20
107	DNA delivery with hyperbranched polylysine: a comparative study with linear and dendritic polylysine. <i>Journal of Controlled Release</i> , 2013 , 169, 276-88	11.7	97

106	CHO Quasispecies Implications for Manufacturing Processes. <i>Processes</i> , 2013 , 1, 296-311	2.9	116
105	Highly efficient production of the Alzheimer's β -secretase integral membrane protease complex by a multi-gene stable integration approach. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 1995-2005	4.9	24
104	Helical-Track Bioreactors for Bacterial, Mammalian and Insect Cell Cultures. <i>Processes</i> , 2013 , 1, 3-11	2.9	
103	k(L)a as a predictor for successful probe-independent mammalian cell bioprocesses in orbitally shaken bioreactors. <i>New Biotechnology</i> , 2012 , 29, 387-94	6.4	15
102	Glycan variability on a recombinant IgG antibody transiently produced in HEK-293E cells. <i>New Biotechnology</i> , 2012 , 29, 471-6	6.4	26
101	Reduced glutamine concentration improves protein production in growth-arrested CHO-DG44 and HEK-293E cells. <i>Biotechnology Letters</i> , 2012 , 34, 619-26	3	22
100	A NanoDrop-based method for rapid determination of viability decline in suspension cultures of animal cells. <i>Analytical Biochemistry</i> , 2012 , 430, 138-40	3.1	2
99	Large-scale transfection of mammalian cells. <i>Methods in Molecular Biology</i> , 2012 , 801, 13-26	1.4	27
98	Recombinant Antibody Yield Over 2 g/L by Transient Transfection of HEK 293 EBNA Cells in a Fed-Batch Process 2012 , 497-500		2
97	Mammalian Cells in Biotech Production 2012 , 43-57		1
96	Poly(ethyleneimine)-mediated large-scale transient gene expression: influence of molecular weight, polydispersity and N-propionyl groups. <i>Macromolecular Bioscience</i> , 2012 , 12, 628-36	5.5	19
95	Role of non-specific DNA in reducing coding DNA requirement for transient gene expression with CHO and HEK-293E cells. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 2271-8	4.9	32
94	High Cell Density Transient Gene Expression in HEK 293 EBNA Cells 2012 , 125-128		1
93	A Transient Gene Expression Process with Recombinant Antibody Titer of 0.5 g/L in CHO Cells 2012 , 91-94		
92	Galectin-3 Over-Expression Enhances Survival and Recombinant Protein Expression in Mammalian Cells 2012 , 31-35		
91	Cellular Proteins in Conditioned Medium Inhibit Polyethylenimine-Mediated Transfection of CHO Cells 2012 , 135-138		
90	Transgene mRNA Levels and Stability are Key Factors to Enhance Transient Gene Expression in CHO DG44 Cells 2012 , 121-124		
89	Quantification of Polyethylenimine in Transient Gene Expression: On the Way to GMP Compliance 2012 , 71-75		

88	Engineering Principles and Cell Culture Performance of Orbitally Shaken Cylindrical Bioreactors 2012 , 407-412		
87	Generation of High-Producing CHO Cell Lines by Piggybac Transposition 2012 , 129-133		
86	Flexible antibodies with nonprotein hinges. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2011 , 87, 603-16	4	6
85	Manufacturing recombinant proteins in kg-ton quantities using animal cells in bioreactors. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011 , 78, 184-8	5.7	116
84	TubeSpin bioreactor 50 for the high-density cultivation of Sf-9 insect cells in suspension. <i>Biotechnology Letters</i> , 2011 , 33, 897-902	3	26
83	CHO cell lines generated by PiggyBac transposition. <i>BMC Proceedings</i> , 2011 , 5 Suppl 8, P31	2.3	2
82	Transposon mediated co-integration and co-expression of transgenes in CHO-DG44 cells. <i>BMC Proceedings</i> , 2011 , 5 Suppl 8, P32	2.3	1
81	The use of filler DNA for improved transfection and reduced DNA needs in transient gene expression with CHO and HEK cells. <i>BMC Proceedings</i> , 2011 , 5 Suppl 8, P33	2.3	2
80	Rapid recombinant protein production from pools of transposon-generated CHO cells. <i>BMC Proceedings</i> , 2011 , 5 Suppl 8, P34	2.3	6
79	Influence of glutamine on transient and stable recombinant protein production in CHO and HEK-293 cells. <i>BMC Proceedings</i> , 2011 , 5 Suppl 8, P35	2.3	2
78	kLa as a predictor for probe-independent mammalian cell bioprocesses in orbitally shaken bioreactors. <i>BMC Proceedings</i> , 2011 , 5 Suppl 8, P36	2.3	
77	Transient transfection of insect Sf-9 cells in TubeSpin(□) bioreactor 50 tubes. <i>BMC Proceedings</i> , 2011 , 5 Suppl 8, P37	2.3	4
76	Transient gene expression with CHO cells in conditioned medium: a study using TubeSpin(□) bioreactors. <i>BMC Proceedings</i> , 2011 , 5 Suppl 8, P38	2.3	5
75	Hydrodynamic stress in orbitally shaken bioreactors. <i>BMC Proceedings</i> , 2011 , 5 Suppl 8, P39	2.3	6
74	Generation of stable, high-producing CHO cell lines by lentiviral vector-mediated gene transfer in serum-free suspension culture. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 600-10	4.9	53
73	The PiggyBac transposon enhances the frequency of CHO stable cell line generation and yields recombinant lines with superior productivity and stability. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 2141-50	4.9	71
72	Efficient and reproducible mammalian cell bioprocesses without probes and controllers?. <i>New Biotechnology</i> , 2011 , 28, 382-90	6.4	20
71	A simple high-yielding process for transient gene expression in CHO cells. <i>Journal of Biotechnology</i> , 2011 , 153, 22-6	3.7	91

70	Chinese Hamster Ovary Cells, Recombinant Protein Production 2010 , 1		
69	Helical Tracks in Shaken Cylindrical Bioreactors Improve Oxygen Transfer and Increase Maximum Cell Density Obtainable for Suspension Cultures of Mammalian Cells 2010 , 187-191		1
68	Innovative, non-stirred bioreactors in scales from milliliters up to 1000 liters for suspension cultures of cells using disposable bags and containers--a Swiss contribution. <i>Chimia</i> , 2010 , 64, 819-23	1.3	34
67	Hyperosmolarity enhances transient recombinant protein yield in Chinese hamster ovary cells. <i>Biotechnology Letters</i> , 2010 , 32, 1587-92	3	21
66	Valproic acid enhances recombinant mRNA and protein levels in transiently transfected Chinese hamster ovary cells. <i>Journal of Biotechnology</i> , 2010 , 148, 128-32	3.7	57
65	Development of Pilot-Scale Orbital Shake Bioreactors: Ideal for Cost-Effective and Efficient Transient Gene Expression 2010 , 183-185		1
64	Optimization and Comparison of Different DNA Methyl Transferase and Histone Deacetylase Inhibitors for Enhancing Transient Protein Expression 2010 , 261-264		
63	Transient Gene Expression in Chinese Hamster Ovary Cells at Low Temperature □The Effects of Cold-Induced Proteins and an mRNA Regulatory Element 2010 , 19-23		
62	A Serum-Free, Transient Transfection System for Enhancing Production of Recombinant Antibodies in Mammalian Cells 2010 , 229-232		
61	Transient Gene Expression in Mammalian Cells: Promises and Challenges for Medical Biotechnology 2009 , 1		
60	25 years of recombinant proteins from reactor-grown cells - where do we go from here?. <i>Biotechnology Advances</i> , 2009 , 27, 1023-1027	17.8	141
59	Efficient oxygen transfer by surface aeration in shaken cylindrical containers for mammalian cell cultivation at volumetric scales up to 1000L. <i>Biochemical Engineering Journal</i> , 2009 , 45, 41-47	4.2	54
58	Respiratory syncytial virus subunit vaccine based on a recombinant fusion protein expressed transiently in mammalian cells. <i>Vaccine</i> , 2009 , 27, 6415-9	4.1	17
57	Mild hypothermia improves transient gene expression yields several fold in Chinese hamster ovary cells. <i>Biotechnology Progress</i> , 2008 , 24, 458-65	2.8	82
56	Recombinant therapeutic protein production in cultivated mammalian cells: current status and future prospects. <i>Drug Discovery Today: Technologies</i> , 2008 , 5, e37-42	7.1	76
55	Shaken helical track bioreactors: Providing oxygen to high-density cultures of mammalian cells at volumes up to 1000 L by surface aeration with air. <i>New Biotechnology</i> , 2008 , 25, 68-75	6.4	33
54	The kinetics of polyethylenimine-mediated transfection in suspension cultures of Chinese hamster ovary cells. <i>Molecular Biotechnology</i> , 2008 , 40, 136-43	3	22
53	High-density transfection with HEK-293 cells allows doubling of transient titers and removes need for a priori DNA complex formation with PEI. <i>Biotechnology and Bioengineering</i> , 2008 , 99, 721-7	4.9	122

52	Valproic acid: a viable alternative to sodium butyrate for enhancing protein expression in mammalian cell cultures. <i>Biotechnology and Bioengineering</i> , 2008 , 101, 182-9	4.9	128
51	Calcium phosphate transfection generates mammalian recombinant cell lines with higher specific productivity than polyfection. <i>Biotechnology and Bioengineering</i> , 2008 , 101, 937-45	4.9	30
50	Coexpression of acidic fibroblast growth factor enhances specific productivity and antibody titers in transiently transfected HEK293 cells. <i>New Biotechnology</i> , 2008 , 25, 162-6	6.4	20
49	Rational vector design and multi-pathway modulation of HEK 293E cells yield recombinant antibody titers exceeding 1 g/l by transient transfection under serum-free conditions. <i>Nucleic Acids Research</i> , 2008 , 36, e96	20.1	162
48	Novel orbital shake bioreactors for transient production of CHO derived IgGs. <i>Biotechnology Progress</i> , 2007 , 23, 1340-6	2.8	65
47	Recombinant protein production by large-scale transient gene expression in mammalian cells: state of the art and future perspectives. <i>Biotechnology Letters</i> , 2007 , 29, 677-84	3	221
46	Scalable transient gene expression in Chinese hamster ovary cells in instrumented and non-instrumented cultivation systems. <i>Biotechnology Letters</i> , 2007 , 29, 703-11	3	62
45	High-titer, serum-free production of adeno-associated virus vectors by polyethyleneimine-mediated plasmid transfection in mammalian suspension cells. <i>Biotechnology Letters</i> , 2007 , 29, 1713-21	3	35
44	Manufacturing of biopharmaceuticals and implications for biosimilars. <i>Kidney and Blood Pressure Research</i> , 2007 , 30 Suppl 1, 6-8	3.1	4
43	Release of Plasmid-DNC from PEI/DNA Particles 2007 , 111-115		
42	Development of a Transient Mammalian Expression Process for the Production of the Cancer Testis Antigen NY-ESO-1 2007 , 125-128		
41	Development of a Transient Mammalian Expression Process for the Production of the Cancer Testis Antigen NY-ESO-1 2007 , 455-458		
40	1000 Non-instrumented Bioreactors in a Week 2007 , 489-495		3
39	Disassembly of polyethylenimine-DNA particles in vitro: implications for polyethylenimine-mediated DNA delivery. <i>Journal of Controlled Release</i> , 2006 , 116, 96-104	11.7	86
38	New disposable tubes for rapid and precise biomass assessment for suspension cultures of mammalian cells. <i>Biotechnology and Bioengineering</i> , 2006 , 95, 1228-33	4.9	40
37	Polyethylenimine-based quality control assay for plasmid DNA. <i>Analytical Biochemistry</i> , 2006 , 356, 309-13	3.1	3
36	Generation of recombinant Chinese hamster ovary cell lines by microinjection. <i>Biotechnology Letters</i> , 2006 , 28, 373-82	3	23
35	Multiple glycerol shocks increase the calcium phosphate transfection of non-synchronized CHO cells. <i>Biotechnology Letters</i> , 2006 , 28, 1827-33	3	13

34	Transient gene expression in suspension HEK-293 cells: application to large-scale protein production. <i>Biotechnology Progress</i> , 2005 , 21, 148-53	2.8	109
33	The CELO adenovirus Gam1 protein enhances transient and stable recombinant protein expression in Chinese hamster ovary cells. <i>Journal of Biotechnology</i> , 2005 , 117, 21-9	3.7	11
32	Large-scale transient expression of therapeutic proteins in mammalian cells. <i>Methods in Molecular Biology</i> , 2005 , 308, 87-98	1.4	29
31	Low-temperature pausing of cultivated mammalian cells. <i>Biotechnology and Bioengineering</i> , 2005 , 89, 157-63	4.9	36
30	Orbital shaker technology for the cultivation of mammalian cells in suspension. <i>Biotechnology and Bioengineering</i> , 2005 , 89, 400-6	4.9	153
29	Engineered <i>Streptomyces</i> quorum-sensing components enable inducible siRNA-mediated translation control in mammalian cells and adjustable transcription control in mice. <i>Journal of Gene Medicine</i> , 2005 , 7, 518-25	3.5	28
28	Production of recombinant protein therapeutics in cultivated mammalian cells. <i>Nature Biotechnology</i> , 2004 , 22, 1393-8	44.5	1556
27	TubeSpin satellites: a fast track approach for process development with animal cells using shaking technology. <i>Biochemical Engineering Journal</i> , 2004 , 17, 217-223	4.2	139
26	Serum-free large-scale transient transfection of CHO cells. <i>Biotechnology and Bioengineering</i> , 2004 , 87, 537-45	4.9	181
25	A spectrophotometric assay for the quantification of polyethylenimine in DNA nanoparticles. <i>Analytical Biochemistry</i> , 2004 , 334, 196-8	3.1	10
24	Reduction of adenovirus E1A mRNA by RNAi results in enhanced recombinant protein expression in transiently transfected HEK293 cells. <i>Gene</i> , 2004 , 341, 227-34	3.8	22
23	Co-transfer of multiple plasmids/viruses as an attractive method to introduce several genes in mammalian cells. <i>New Comprehensive Biochemistry</i> , 2003 , 38, 337-348		1
22	Gene transfer and gene amplification in mammalian cells. <i>New Comprehensive Biochemistry</i> , 2003 , 38, 309-335		3
21	Fluorescent proteins in animal cells for process development: optimization of sodium butyrate treatment as an example. <i>Biotechnology and Bioengineering</i> , 2002 , 77, 528-37	4.9	48
20	Balancing GFP reporter plasmid quantity in large-scale transient transfections for recombinant anti-human Rhesus-D IgG1 synthesis. <i>Biotechnology and Bioengineering</i> , 2002 , 79, 595-601	4.9	32
19	100-liter transient transfection. <i>Cytotechnology</i> , 2002 , 38, 15-21	2.2	86
18	S-phase synchronized CHO cells show elevated transfection efficiency and expression using CaPi. <i>Cytotechnology</i> , 2002 , 38, 57-62	2.2	30
17	Transient gene expression: recombinant protein production with suspension-adapted HEK293-EBNA cells. <i>Biotechnology and Bioengineering</i> , 2001 , 75, 197-203	4.9	181

16	Calcium phosphate transfection optimization for serum-free suspension culture. <i>Cytotechnology</i> , 2001 , 35, 175-80	2.2	12
15	Extraction of plasmid DNA using reactor scale alkaline lysis and selective precipitation for scalable transient transfection. <i>Cytotechnology</i> , 2001 , 35, 165-73	2.2	12
14	100 Liter Transient Transfection 2001 , 37-44		1
13	Cytogenetic Characterization of Recombinant Cells 1999 , 49-60		
12	Calcium-phosphate mediated DNA transfer into HEK-293 cells in suspension: control of physicochemical parameters allows transfection in stirred media. Transfection and protein expression in mammalian cells. <i>Cytotechnology</i> , 1998 , 26, 39-47	2.2	55
11	Principles of a Scaleable Transient Transfection and Expression Technology for Mammalian Cells 1997 , 47-50		
10	Gene transfer and amplification in CHO cells. Efficient methods for maximizing specific productivity and assessment of genetic consequences. <i>Annals of the New York Academy of Sciences</i> , 1996 , 782, 70-8	6.5	19
9	Transfecting mammalian cells: optimization of critical parameters affecting calcium-phosphate precipitate formation. <i>Nucleic Acids Research</i> , 1996 , 24, 596-601	20.1	740
8	Plasmid integration, amplification and cytogenetics in CHO cells: questions and comments. <i>Biologicals</i> , 1994 , 22, 95-102	1.8	40
7	A Slow Clearing, Fibrin-Specific, PAI-1 Resistant Variant of t-PA (T103N, KHRR 296-299 AAAA). <i>Thrombosis and Haemostasis</i> , 1993 , 70, 307-312	7	40
6	METHOTREXATE AND CHO CELLS: PRODUCTIVITY AND GENETICS OF AMPLIFIED EXPRESSION VECTOR SEQUENCES 1991 , 316-326		4
5	Biological properties of a CD4 immunoadhesin. <i>Nature</i> , 1990 , 344, 667-70	50.4	157
4	Integration, amplification and stability of plasmid sequences in CHO cell cultures. <i>Biologicals</i> , 1990 , 18, 159-64	1.8	36
3	Designing CD4 immunoadhesins for AIDS therapy. <i>Nature</i> , 1989 , 337, 525-31	50.4	562
2	Manufacture of Recombinant Biopharmaceutical Proteins by Cultivated Mammalian Cells in Bioreactors 1984 , 723-759		
1	Fluid dynamics of a pilot-scale OrbShake bioreactor under different operating conditions. <i>Journal of Chemical Technology and Biotechnology</i> ,	3.5	1