Udo Reichl

List of Publications by Year in descending order

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203 papers	6,903 citations	50170 46 h-index	95083 68 g-index
215 all docs	215 docs citations	215 times ranked	6389 citing authors

#	Article	IF	Citations
1	Cellâ€Free Multiâ€Enzyme Synthesis and Purification of Uridine Diphosphate Galactose. ChemBioChem, 2022, 23, .	1.3	7
2	High-Titer Hepatitis C Virus Production in a Scalable Single-Use High Cell Density Bioreactor. Vaccines, 2022, 10, 249.	2.1	2
3	Impact of Influenza A Virus Infection on Growth and Metabolism of Suspension MDCK Cells Using a Dynamic Model. Metabolites, 2022, 12, 239.	1.3	3
4	Absolute quantification of viral proteins during single-round replication of MDCK suspension cells. Journal of Proteomics, 2022, 259, 104544.	1.2	5
5	Production of Modified Vaccinia Ankara Virus by Intensified Cell Cultures: A Comparison of Platform Technologies for Viral Vector Production. Biotechnology Journal, 2021, 16, e2000024.	1.8	12
6	OP7, a novel influenza A virus defective interfering particle: production, purification, and animal experiments demonstrating antiviral potential. Applied Microbiology and Biotechnology, 2021, 105, 129-146.	1.7	25
7	Tracking changes in adaptation to suspension growth for MDCK cells: cell growth correlates with levels of metabolites, enzymes and proteins. Applied Microbiology and Biotechnology, 2021, 105, 1861-1874.	1.7	2
8	Comprehensive Nâ€glycosylation analysis of the influenza A virus proteins HA and NA from adherent and suspension MDCK cells. FEBS Journal, 2021, 288, 4869-4891.	2.2	6
9	Site-specific N-glycosylation analysis of animal cell culture-derived Zika virus proteins. Scientific Reports, 2021, 11, 5147.	1.6	5
10	Fecal Metaproteomics Reveals Reduced Gut Inflammation and Changed Microbial Metabolism Following Lifestyle-Induced Weight Loss. Biomolecules, 2021, 11, 726.	1.8	11
11	Cell culture-based production and in vivo characterization of purely clonal defective interfering influenza virus particles. BMC Biology, 2021, 19, 91.	1.7	18
12	SARS-CoV-2 Production in a Scalable High Cell Density Bioreactor. Vaccines, 2021, 9, 706.	2.1	14
13	Antiviral Activity of Influenza A Virus Defective Interfering Particles against SARS-CoV-2 Replication In Vitro through Stimulation of Innate Immunity. Cells, 2021, 10, 1756.	1.8	19
14	Towards integrated production of an influenza A vaccine candidate with MDCK suspension cells. Biotechnology and Bioengineering, 2021, 118, 3996-4013.	1.7	10
15	Combining functional metagenomics and glycoanalytics to identify enzymes that facilitate structural characterization of sulfated N-glycans. Microbial Cell Factories, 2021, 20, 162.	1.9	10
16	Cell-Free Glycoengineering of the Recombinant SARS-CoV-2 Spike Glycoprotein. Frontiers in Bioengineering and Biotechnology, 2021, 9, 699025.	2.0	5
17	Multiscale model of defective interfering particle replication for influenza A virus infection in animal cell culture. PLoS Computational Biology, 2021, 17, e1009357.	1.5	8
18	Cell cultureâ€“based production of defective interfering influenza A virus particles in perfusion mode using an alternating tangential flow filtration system. Applied Microbiology and Biotechnology, 2021, 105, 7251-7264.	1.7	14

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19	Single-Use Capture Purification of Adeno-Associated Viral Gene Transfer Vectors by Membrane-Based Steric Exclusion Chromatography. Human Gene Therapy, 2021, 32, 959-974.	1.4	28
20	Semi-continuous Propagation of Influenza A Virus and Its Defective Interfering Particles: Analyzing the Dynamic Competition To Select Candidates for Antiviral Therapy. Journal of Virology, 2021, 95, e0117421.	1.5	18
21	A high cell density perfusion process for Modified Vaccinia virus Ankara production: Process integration with inline DNA digestion and cost analysis. Biotechnology and Bioengineering, 2021, 118, 4720-4734.	1.7	12
22	High cell density perfusion process for high yield of influenza A virus production using MDCK suspension cells. Applied Microbiology and Biotechnology, 2021, 105, 1421-1434.	1.7	24
23	Continuous purification of influenza A virus particles using pseudo-affinity membrane chromatography. Journal of Biotechnology, 2021, 342, 139-148.	1.9	6
24	MPA_Pathway_Tool: User-Friendly, Automatic Assignment of Microbial Community Data on Metabolic Pathways. International Journal of Molecular Sciences, 2021, 22, 10992.	1.8	2
25	Critical Assessment of MetaProteome Investigation (CAMPI): a multi-laboratory comparison of established workflows. Nature Communications, 2021, 12, 7305.	5.8	34
26	Application of an Inclined Settler for Cell Culture-Based Influenza A Virus Production in Perfusion Mode. Frontiers in Bioengineering and Biotechnology, 2020, 8, 672.	2.0	23
27	Impact of feeding and stirring regimes on the internal stratification of microbial communities in the fermenter of anaerobic digestion plants. Bioresource Technology, 2020, 314, 123679.	4.8	5
28	Synthesis of lipid-linked oligosaccharides by a compartmentalized multi-enzyme cascade for the in vitro N-glycosylation of peptides. Journal of Biotechnology, 2020, 322, 54-65.	1.9	8
29	Virus harvesting in perfusion culture: Choosing the right type of hollow fiber membrane. Biotechnology and Bioengineering, 2020, 117, 3040-3052.	1.7	19
30	A dynamic model linking cell growth to intracellular metabolism and extracellular byâ€product accumulation. Biotechnology and Bioengineering, 2020, 117, 1533-1553.	1.7	9
31	Single-Cell Analysis Uncovers a Vast Diversity in Intracellular Viral Defective Interfering RNA Content Affecting the Large Cell-to-Cell Heterogeneity in Influenza A Virus Replication. Viruses, 2020, 12, 71.	1.5	22
32	Performance of an acoustic settler versus a hollow fiberâ€“based ATF technology for influenza virus production in perfusion. Applied Microbiology and Biotechnology, 2020, 104, 4877-4888.	1.7	29
33	Perfusion Control for High Cell Density Cultivation and Viral Vaccine Production. Methods in Molecular Biology, 2020, 2095, 141-168.	0.4	9
34	Orbitally Shaken Single-Use Bioreactor for Animal Cell Cultivation: Fed-Batch and Perfusion Mode. Methods in Molecular Biology, 2020, 2095, 105-123.	0.4	3
35	Enzymatic Cascade Synthesis Provides Novel Linear Human Milk Oligosaccharides as Reference Standards for xCGE-LIF Based High-Throughput Analysis. Biotechnology Journal, 2019, 14, 1800305.	1.8	15
36	Influenza A virus production in a single-use orbital shaken bioreactor with ATF or TFF perfusion systems. Vaccine, 2019, 37, 7011-7018.	1.7	23

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37	Continuous influenza virus production in a tubular bioreactor system provides stable titers and avoids the â€œvon Magnus effectâ€. PLoS ONE, 2019, 14, e0224317.	1.1	9
38	A Robust and Universal Metaproteomics Workflow for Research Studies and Routine Diagnostics Within 24 h Using Phenol Extraction, FASP Digest, and the MetaProteomeAnalyzer. Frontiers in Microbiology, 2019, 10, 1883.	1.5	66
39	Production of Defective Interfering Particles of Influenza A Virus in Parallel Continuous Cultures at Two Residence Timesâ€"Insights From qPCR Measurements and Viral Dynamics Modeling. Frontiers in Bioengineering and Biotechnology, 2019, 7, 275.	2.0	24
40	Enzymatic Cascades for Tailored 13C6 and 15N Enriched Human Milk Oligosaccharides. Molecules, 2019, 24, 3482.	1.7	8
41	Use of sulfated cellulose membrane adsorbers for chromatographic purification of cell cultured-derived influenza A and B viruses. Separation and Purification Technology, 2019, 226, 350-358.	3.9	19
42	Efficient influenza A virus production in high cell density using the novel porcine suspension cell line PBG.PK2.1. Vaccine, 2019, 37, 7019-7028.	1.7	18
43	Semi-perfusion cultures of suspension MDCK cells enable high cell concentrations and efficient influenza A virus production. Vaccine, 2019, 37, 7003-7010.	1.7	28
44	A system for production of defective interfering particles in the absence of infectious influenza A virus. PLoS ONE, 2019, 14, e0212757.	1.1	27
45	Hydrophobic-interaction chromatography for purification of influenza A and B virus. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2019, 1117, 103-117.	1.2	26
46	Model-based analysis of influenza A virus replication in genetically engineered cell lines elucidates the impact of host cell factors on key kinetic parameters of virus growth. PLoS Computational Biology, 2019, 15, e1006944.	1.5	10
47	High titer MVA and influenza A virus production using a hybrid fed-batch/perfusion strategy with an ATF system. Applied Microbiology and Biotechnology, 2019, 103, 3025-3035.	1.7	20
48	RedCom: A strategy for reduced metabolic modeling of complex microbial communities and its application for analyzing experimental datasets from anaerobic digestion. PLoS Computational Biology, 2019, 15, e1006759.	1.5	29
49	Multiscale modeling of influenza A virus replication in cell cultures predicts infection dynamics for highly different infection conditions. PLoS Computational Biology, 2019, 15, e1006819.	1.5	24
50	A Novel Type of Influenza A Virus-Derived Defective Interfering Particle with Nucleotide Substitutions in Its Genome. Journal of Virology, 2019, 93, .	1.5	38
51	High-cell-density cultivations to increase MVA virus production. Vaccine, 2018, 36, 3124-3133.	1.7	34
52	Propagation of Brazilian Zika virus strains in static and suspension cultures using Vero and BHK cells. Vaccine, 2018, 36, 3140-3145.	1.7	26
53	Purification of cell culture-derived influenza A virus via continuous anion exchange chromatography on monoliths. Vaccine, 2018, 36, 3153-3160.	1.7	31
54	Purification of influenza virusâ€like particles using sulfated cellulose membrane adsorbers. Journal of Chemical Technology and Biotechnology, 2018, 93, 1988-1996.	1.6	30

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55	One pot synthesis of GDPâ€mannose by a multiâ€enzyme cascade for enzymatic assembly of lipidâ€linked oligosaccharides. Biotechnology and Bioengineering, 2018, 115, 192-205.	1.7	35
56	Optimization of cell cultureâ€derived influenza A virus particles purification using sulfated cellulose membrane adsorbers. Engineering in Life Sciences, 2018, 18, 29-39.	2.0	20
57	Cell culture-based production of defective interfering particles for influenza antiviral therapy. Applied Microbiology and Biotechnology, 2018, 102, 1167-1177.	1.7	27
58	MPA Portable: A Stand-Alone Software Package for Analyzing Metaproteome Samples on the Go. Analytical Chemistry, 2018, 90, 685-689.	3.2	65
59	Improvement of electrospray stability in negative ion mode for nano-PGC-LC-MS glycoanalysis via post-column make-up flow. Glycoconjugate Journal, 2018, 35, 499-509.	1.4	11
60	The Fine Art of Destruction: A Guide to Inâ€Depth Glycoproteomic Analysesâ€”Exploiting the Diagnostic Potential of Fragment Ions. Proteomics, 2018, 18, e1800282.	1.3	36
61	glyXtool^{MS}: An Open-Source Pipeline for Semiautomated Analysis of Glycopeptide Mass Spectrometry Data. Analytical Chemistry, 2018, 90, 11908-11916.	3.2	35
62	Establishment of a five-enzyme cell-free cascade for the synthesis of uridine diphosphate N-acetylglucosamine. Journal of Biotechnology, 2018, 283, 120-129.	1.9	26
63	Process intensification of EB66Â® cell cultivations leads to high-yield yellow fever and Zika virus production. Applied Microbiology and Biotechnology, 2018, 102, 8725-8737.	1.7	38
64	SDSâ€PAGE fractionation to increase metaproteomic insight into the taxonomic and functional composition of microbial communities for biogas plant samples. Engineering in Life Sciences, 2018, 18, 498-509.	2.0	27
65	Influence of the production system on the surface properties of influenza A virus particles. Engineering in Life Sciences, 2017, 17, 1071-1077.	2.0	3
66	Steric exclusion chromatography for purification of cell culture-derived influenza A virus using regenerated cellulose membranes and polyethylene glycol. Journal of Chromatography A, 2017, 1483, 110-119.	1.8	57
67	Improvement of the glycoproteomic toolbox with the discovery of a unique C-terminal cleavage specificity of flavastacin for N-glycosylated asparagine. Scientific Reports, 2017, 7, 11419.	1.6	9
68	Specific ion effects on the particle size distributions of cell cultureâ€“derived influenza A virus particles within the Hofmeister series. Engineering in Life Sciences, 2017, 17, 470-478.	2.0	10
69	Efficient and stable production of Modified Vaccinia Ankara virus in two-stage semi-continuous and in continuous stirred tank cultivation systems. PLoS ONE, 2017, 12, e0182553.	1.1	15
70	Early changes in the metabolic profile of activated CD8+ T cells. BMC Cell Biology, 2016, 17, 28.	3.0	31
71	Towards personalized diagnostics via longitudinal study of the human plasma N-glycome. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 1728-1738.	1.1	72
72	Metaproteomics Applied to Activated Sludge for Industrial Wastewater Treatment Revealed a Dominant Methylotrophic Metabolism of Hyphomicrobium zavarzinii. Microbial Ecology, 2016, 72, 9-13.	1.4	12

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73	Influenza virus intracellular replication dynamics, release kinetics, and particle morphology during propagation in MDCK cells. Applied Microbiology and Biotechnology, 2016, 100, 7181-7192.	1.7	58
74	Binding kinetics and multi-bond: Finding correlations by synthesizing interactions between ligand-coated bionanoparticles and receptor surfaces. Analytical Biochemistry, 2016, 505, 8-17.	1.1	2
75	Ezrin and HNRNP expression correlate with increased virus release rate and early onset of virusâ€induced apoptosis of MDCK suspension cells. Biotechnology Journal, 2016, 11, 1332-1342.	1.8	2
76	Reprint of â€œModeling the intracellular replication of influenza A virus in the presence of defective interfering RNAs. Virus Research, 2016, 218, 86-95.	1.1	2
77	A cell culture-derived whole virus influenza A vaccine based on magnetic sulfated cellulose particles confers protection in mice against lethal influenza A virus infection. Vaccine, 2016, 34, 6367-6374.	1.7	4
78	Predicting compositions of microbial communities from stoichiometric models with applications for the biogas process. Biotechnology for Biofuels, 2016, 9, 17.	6.2	20
79	Glycomic Characterization of Induced Pluripotent Stem Cells Derived from a Patient Suffering from Phosphomannomutase 2 Congenital Disorder of Glycosylation (PMM2-CDG). Molecular and Cellular Proteomics, 2016, 15, 1435-1452.	2.5	51
80	Bioreactors for high cell density and continuous multi-stage cultivations: options for process intensification in cell culture-based viral vaccine production. Applied Microbiology and Biotechnology, 2016, 100, 2121-2132.	1.7	104
81	Site-specific O-Glycosylation Analysis of Human Blood Plasma Proteins. Molecular and Cellular Proteomics, 2016, 15, 624-641.	2.5	67
82	A membrane-based purification process for cell culture-derived influenza A virus. Journal of Biotechnology, 2016, 220, 12-20.	1.9	30
83	Modeling the intracellular replication of influenza A virus in the presence of defective interfering RNAs. Virus Research, 2016, 213, 90-99.	1.1	59
84	Impaired antiviral response of adenovirus-transformed cell lines supports virus replication. Journal of General Virology, 2016, 97, 293-298.	1.3	3
85	Fractionation of biogas plant sludge material improves metaproteomic characterization to investigate metabolic activity of microbial communities. Proteomics, 2015, 15, 3585-3589.	1.3	14
86	Metaproteomics of activated sludge from a wastewater treatment plant â€“ A pilot study. Proteomics, 2015, 15, 3596-3601.	1.3	52
87	Colonic metaproteomic signatures of active bacteria and the host in obesity. Proteomics, 2015, 15, 3544-3552.	1.3	70
88	Monitoring changes in proteome during stepwise adaptation of a MDCK cell line from adherence to growth in suspension. Vaccine, 2015, 33, 4269-4280.	1.7	19
89	Single-cell analysis and stochastic modelling unveil large cell-to-cell variability in influenza A virus infection. Nature Communications, 2015, 6, 8938.	5.8	129
90	The MetaProteomeAnalyzer: A Powerful Open-Source Software Suite for Metaproteomics Data Analysis and Interpretation. Journal of Proteome Research, 2015, 14, 1557-1565.	1.8	169

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91	Bioreactor concepts for cell culture-based viral vaccine production. Expert Review of Vaccines, 2015, 14, 1181-1195.	2.0	76
92	Navigating through metaproteomics data: A logbook of database searching. Proteomics, 2015, 15, 3439-3453.	1.3	128
93	Community shifts in a well-operating agricultural biogas plant: how process variations are handled by the microbiome. Applied Microbiology and Biotechnology, 2015, 99, 7791-7803.	1.7	64
94	Metaproteomics of complex microbial communities in biogas plants. Microbial Biotechnology, 2015, 8, 749-763.	2.0	98
95	Comparison of Influenza Virus Particle Purification Using Magnetic Sulfated Cellulose Particles with an Established Centrifugation Method for Analytics. Analytical Chemistry, 2015, 87, 10708-10711.	3.2	4
96	N-Glycosylation Fingerprinting of Viral Glycoproteins by xCGE-LIF. Methods in Molecular Biology, 2015, 1331, 123-143.	0.4	39
97	Glycolysis Is Governed by Growth Regime and Simple Enzyme Regulation in Adherent MDCK Cells. PLoS Computational Biology, 2014, 10, e1003885.	1.5	9
98	Comparative Performance of Four Methods for High-throughput Glycosylation Analysis of Immunoglobulin G in Genetic and Epidemiological Research. Molecular and Cellular Proteomics, 2014, 13, 1598-1610.	2.5	169
99	Impact of defective interfering particles on virus replication and antiviral host response in cell culture-based influenza vaccine production. Applied Microbiology and Biotechnology, 2014, 98, 8999-9008.	1.7	56
100	Species-specific viability analysis of Pseudomonas aeruginosa, Burkholderia cepacia and Staphylococcus aureus in mixed culture by flow cytometry. BMC Microbiology, 2014, 14, 56.	1.3	33
101	Avidity of influenza virus: Model-based identification of adsorption kinetics from surface plasmon resonance experiments. Journal of Chromatography A, 2014, 1326, 125-129.	1.8	9
102	High cell density cultivations by alternating tangential flow (ATF) perfusion for influenza A virus production using suspension cells. Vaccine, 2014, 32, 2770-2781.	1.7	86
103	Proteomics in environmental and technical microbiology. Engineering in Life Sciences, 2014, 14, 27-46.	2.0	6
104	Production of high-titer human influenza A virus with adherent and suspension MDCK cells cultured in a single-use hollow fiber bioreactor. Vaccine, 2014, 32, 1003-1011.	1.7	47
105	A flow-through chromatography process for influenza A and B virus purification. Journal of Virological Methods, 2014, 207, 45-53.	1.0	52
106	The avian cell line AGE1.CR.pIX characterized by metabolic flux analysis. BMC Biotechnology, 2014, 14, 72.	1.7	18
107	Flow cytometric viability assessment of lactic acid bacteria starter cultures produced by fluidized bed drying. Applied Microbiology and Biotechnology, 2014, 98, 4897-4909.	1.7	44
108	The influence of cell growth and enzyme activity changes on intracellular metabolite dynamics in AGE1.HN.AAT cells. Journal of Biotechnology, 2014, 178, 43-53.	1.9	8

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109	Vaccine Production: Upstream Processing with Adherent or Suspension Cell Lines. Methods in Molecular Biology, 2014, 1104, 371-393.	0.4	23
110	Batchâ€toâ€batch variability of two human designer cell lines â€“ <scp>AGE</scp>1.<scp>HN</scp> and <scp>AGE</scp>1.<scp>HN</scp>.<scp>AAT</scp> â€“ carried out by different laboratories under defined culture conditions using a mathematical model. Engineering in Life Sciences, 2013, 13, 580-592.	2.0	3
111	CAP, a new human suspension cell line for influenza virus production. Applied Microbiology and Biotechnology, 2013, 97, 111-122.	1.7	38
112	Proteome analysis of virusâ€“host cell interaction: rabies virus replication in Vero cells in two different media. Applied Microbiology and Biotechnology, 2013, 97, 5493-5506.	1.7	15
113	Toward Animal Cell Cultureâ€“Based Influenza Vaccine Design: Viral Hemagglutinin N-Glycosylation Markedly Impacts Immunogenicity. Journal of Immunology, 2013, 190, 220-230.	0.4	59
114	Development of a highâ€throughput glycoanalysis method for the characterization of oligosaccharides in human milk utilizing multiplexed capillary gel electrophoresis with laserâ€induced fluorescence detection. Electrophoresis, 2013, 34, 2323-2336.	1.3	43
115	Searching for a needle in a stack of needles: challenges in metaproteomics data analysis. Molecular BioSystems, 2013, 9, 578-585.	2.9	93
116	Impact of cultivation conditions on Nâ€glycosylation of influenza virus a hemagglutinin produced in MDCK cell culture. Biotechnology and Bioengineering, 2013, 110, 1691-1703.	1.7	23
117	Metagenome and metaproteome analyses of microbial communities in mesophilic biogas-producing anaerobic batch fermentations indicate concerted plant carbohydrate degradation. Systematic and Applied Microbiology, 2013, 36, 330-338.	1.2	182
118	Distributed modeling of human influenza a virusâ€“host cell interactions during vaccine production. Biotechnology and Bioengineering, 2013, 110, 2252-2266.	1.7	16
119	Multiscale Modeling of Influenza A Virus Infection Supports the Development of Direct-Acting Antivirals. PLoS Computational Biology, 2013, 9, e1003372.	1.5	68
120	Herstellung moderner Grippeimpfstoffe. Chemie in Unserer Zeit, 2013, 47, 12-22.	0.1	0
121	glyXalign: Highâ€throughput migration time alignment preprocessing of electrophoretic data retrieved via multiplexed capillary gel electrophoresis with laserâ€induced fluorescence detectionâ€based glycoprofiling. Electrophoresis, 2013, 34, 2311-2315.	1.3	14
122	The regulation of glutaminolysis and citric acid cycle activity during mammalian cell cultivation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 48-53.	0.4	3
123	Identification of Growth Phases and Influencing Factors in Cultivations with AGE1.HN Cells Using Set-Based Methods. PLoS ONE, 2013, 8, e68124.	1.1	11
124	Continuous Influenza Virus Production in Cell Culture Shows a Periodic Accumulation of Defective Interfering Particles. PLoS ONE, 2013, 8, e72288.	1.1	76
125	Elements in the Development of a Production Process for Modified Vaccinia Virus Ankara. Microorganisms, 2013, 1, 100-121.	1.6	5
126	Parameter Identification Of Time-Delay Systems: A Flatness Based Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 165-170.	0.4	4

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127	A flow cytometric method for viability assessment of Staphylococcus aureus and Burkholderia cepacia in mixed culture. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2012, 81A, 1055-1066.	1.1	33
128	Effect of the 3â€²-Terminal Truncation of the Human interferon-Gamma Gene on Plasmid Segregation inEscherichia Coli. Biotechnology and Biotechnological Equipment, 2012, 26, 2930-2936.	0.5	0
129	How can measurement, monitoring, modeling and control advance cell culture in industrial biotechnology?. Biotechnology Journal, 2012, 7, 1522-1529.	1.8	49
130	Live attenuated influenza viruses produced in a suspension process with avian AGE1.CR.pIX cells. BMC Biotechnology, 2012, 12, 79.	1.7	34
131	Metaproteome analysis to determine the metabolically active part of a thermophilic microbial community producing biogas from agricultural biomass. Canadian Journal of Microbiology, 2012, 58, 917-922.	0.8	40
132	Proteomic tracking and analysis of a bacterial mixed culture. Proteomics, 2012, 12, 1893-1901.	1.3	21
133	Modeling the Intracellular Dynamics of Influenza Virus Replication To Understand the Control of Viral RNA Synthesis. Journal of Virology, 2012, 86, 7806-7817.	1.5	63
134	Timeâ€kill studies with a ceftazidimeâ€treated mixed culture consisting of <scp>P</scp>seudomonas aeruginosa, <scp>B</scp>urkholderia cepacia and <scp>S</scp>taphylococcus aureus. Engineering in Life Sciences, 2012, 12, 188-197.	2.0	2
135	Evaluation of criteria for bioreactor comparison and operation standardization for mammalian cell culture. Engineering in Life Sciences, 2012, 12, 518-528.	2.0	32
136	Trypsin promotes efficient influenza vaccine production in MDCK cells by interfering with the antiviral host response. Applied Microbiology and Biotechnology, 2012, 93, 601-611.	1.7	28
137	Avian Designer Cells AGE1.CRÂ® as Candidates for MVA and Influenza Vaccine Production. , 2012, , 615-631.		1
138	Optimized CGE-LIF-Based Glycan Analysis for High-Throughput Applications. , 2012, , 599-603.		3
139	Monitoring of Host-Cell Infection and Virus-Induced Apoptosis in Influenza Vaccine Production. , 2012, , 675-683.		0
140	Efficient influenza B virus propagation due to deficient interferon-induced antiviral activity in MDCK cells. Vaccine, 2011, 29, 7125-7129.	1.7	15
141	Impact of Host Cell Line Adaptation on Quasispecies Composition and Glycosylation of Influenza A Virus Hemagglutinin. PLoS ONE, 2011, 6, e27989.	1.1	39
142	Downstream processing of cell culture-derived virus particles. Expert Review of Vaccines, 2011, 10, 1451-1475.	2.0	117
143	Effects of a recombinant gene expression on ColE1-like plasmid segregation in Escherichia coli. BMC Biotechnology, 2011, 11, 18.	1.7	27
144	Animal-Human Health Interface and community based surveillance in Vietnam-a strategy under Mekong Basin Disease Surveillance Cooperation (MBDS). BMC Proceedings, 2011, 5, P113.	1.8	1

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145	Impact of different influenza cultivation conditions on HA N-Glycosylation. BMC Proceedings, 2011, 5, P113.	1.8	4
146	Effect of influenza virus infection on key metabolic enzyme activities in MDCK cells. BMC Proceedings, 2011, 5, P129.	1.8	24
147	Criteria for bioreactor comparison and operation standardisation during process development for mammalian cell culture. BMC Proceedings, 2011, 5, P47.	1.8	7
148	Characterisation of cultivation of the human cell line AGE1.HN.AAT. BMC Proceedings, 2011, 5, P87.	1.8	1
149	Metaproteome analysis of sewage sludge from membrane bioreactors. Proteomics, 2011, 11, 2738-2744.	1.3	40
150	Experimental characterization of flow conditions in 2â€•and 20â€‐bioreactors with waveâ€‐induced motion. Biotechnology Progress, 2011, 27, 402-409.	1.3	26
151	A novel concept combining experimental and mathematical analysis for the identification of unknown interspecies effects in a mixed culture. Biotechnology and Bioengineering, 2011, 108, 1900-1911.	1.7	21
152	Interspecies effects in a ceftazidime-treated mixed culture of Pseudomonas aeruginosa, Burkholderia cepacia and Staphylococcus aureus: analysis at the single-species level. Journal of Antimicrobial Chemotherapy, 2011, 66, 138-145.	1.3	12
153	Impact of Influenza Virus Adaptation Status on HAN-Glycosylation Patterns in Cell Culture-Based Vaccine Production. Journal of Carbohydrate Chemistry, 2011, 30, 281-290.	0.4	6
154	Population balance modelling of influenza virus replication during vaccine production â€“ Influence of apoptosis. Computer Aided Chemical Engineering, 2011, 29, 1336-1340.	0.3	2
155	Capturing of cell cultureâ€‐derived modified Vaccinia Ankara virus by ion exchange and pseudoâ€‐affinity membrane adsorbers. Biotechnology and Bioengineering, 2010, 105, 761-769.	1.7	22
156	Metabolite Analysis in Mammalian Cells: How to Generate Reliable Data Sets?. , 2010, , 397-406.		0
157	MDCK and Vero cells for influenza virus vaccine production: a one-to-one comparison up to lab-scale bioreactor cultivation. Applied Microbiology and Biotechnology, 2010, 88, 461-475.	1.7	79
158	Real-time RT-qPCR assay for the analysis of human influenza A virus transcription and replication dynamics. Journal of Virological Methods, 2010, 168, 63-71.	1.0	42
159	Metabolic effects of influenza virus infection in cultured animal cells: Intra- and extracellular metabolite profiling. BMC Systems Biology, 2010, 4, 61.	3.0	174
160	Characterization of flow conditions in 2 L and 20 L wave bioreactorsÂ® using computational fluid dynamics. Biotechnology Progress, 2010, 26, 101-110.	1.3	42
161	Purification of cell cultureâ€‐derived modified vaccinia ankara virus by pseudoâ€‐affinity membrane adsorbers and hydrophobic interaction chromatography. Biotechnology and Bioengineering, 2010, 107, 312-320.	1.7	47
162	Virusâ€“host cell interactions in vaccine production cell lines infected with different human influenza A virus variants: A proteomic approach. Journal of Proteomics, 2010, 73, 1656-1669.	1.2	29

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163	High yields of influenza A virus in Madin-Darby canine kidney cells are promoted by an insufficient interferon-induced antiviral state. Journal of General Virology, 2010, 91, 1754-1763.	1.3	68
164	Dynamics of bionanoparticle targeting in mixtures of human tumour cells by validated population balance modelling. Soft Matter, 2010, 6, 1203.	1.2	3
165	Purification of cell culture-derived influenza virus A/Puerto Rico/8/34 by membrane-based immobilized metal affinity chromatography. Journal of Virological Methods, 2009, 161, 312-316.	1.0	29
166	Sulfated membrane adsorbers for economic pseudoâ€affinity capture of influenza virus particles. Biotechnology and Bioengineering, 2009, 103, 1144-1154.	1.7	49
167	Growth behavior of number distributed adherent MDCK cells for optimization in microcarrier cultures. Biotechnology Progress, 2009, 25, 1717-1731.	1.3	25
168	Quantitative analysis of cellular proteome alterations in human influenza A virusâ€infected mammalian cell lines. Proteomics, 2009, 9, 3316-3327.	1.3	97
169	Atmospheric Pressure Free Liquid Infrared MALDI Mass Spectrometry: Toward a combined ESI/MALDI-Liquid Chromatography Interface. Analytical Chemistry, 2009, 81, 443-452.	3.2	24
170	Glycan analysis in cell culture-based influenza vaccine production: Influence of host cell line and virus strain on the glycosylation pattern of viral hemagglutinin. Vaccine, 2009, 27, 4325-4336.	1.7	76
171	Continuous cell lines as a production system for influenza vaccines. Expert Review of Vaccines, 2009, 8, 1681-1692.	2.0	128
172	Size-exclusion chromatography as a linear transfer system: Purification of human influenza virus as an example. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 873, 102-112.	1.2	20
173	Profiling of external metabolites during production of hantavirus nucleocapsid protein with recombinant Saccharomyces cerevisiae. Biotechnology Letters, 2008, 30, 415-420.	1.1	0
174	Flow cytometric monitoring of influenza A virus infection in MDCK cells during vaccine production. BMC Biotechnology, 2008, 8, 45.	1.7	26
175	Nâ€glycan analysis by CGEâ€“LIF: Profiling influenza A virus hemagglutinin Nâ€glycosylation during vaccine production. Electrophoresis, 2008, 29, 4203-4214.	1.3	86
176	Simultaneous extraction of several metabolites of energy metabolism and related substances in mammalian cells: Optimization using experimental design. Analytical Biochemistry, 2008, 373, 349-369.	1.1	85
177	Substitution of Glutamine by Pyruvate To Reduce Ammonia Formation and Growth Inhibition of Mammalian Cells. Biotechnology Progress, 2008, 21, 58-69.	1.3	104
178	Segregated Mathematical Model for Growth of Anchorage-Dependent MDCK Cells in Microcarrier Culture. Biotechnology Progress, 2008, 24, 110-119.	1.3	20
179	Comparison of Metabolic Flux Distributions for MDCK Cell Growth in Glutamineâ€and Pyruvateâ€Containing Media. Biotechnology Progress, 2008, 24, 311-320.	1.3	48
180	Monitoring influenza virus content in vaccine production: Precise assays for the quantitation of hemagglutination and neuraminidase activity. Biologicals, 2008, 36, 145-161.	0.5	113

#	Article	IF	Citations
181	Capture of cell culture-derived influenza virus by lectins: Strain independent, but host cell dependent. Journal of Virological Methods, 2008, 154, 61-68.	1.0	23
182	Metabolic flux model for an anchorageâ€dependent MDCK cell line: Characteristic growth phases and minimum substrate consumption flux distribution. Biotechnology and Bioengineering, 2008, 101, 135-152.	1.7	44
183	Lectin-affinity chromatography for downstream processing of MDCK cell culture derived human influenza A viruses. Vaccine, 2007, 25, 939-947.	1.7	65
184	Impact of adsorbents selection on capture efficiency of cell culture derived human influenza viruses. Journal of Biotechnology, 2007, 131, 309-317.	1.9	24
185	Vaccine Production. Methods in Biotechnology, 2007, , 457-473.	0.2	47
186	Concentration Polarization and Nonequilibrium Electroosmotic Slip in Dense Multiparticle Systems. Langmuir, 2007, 23, 9271-9281.	1.6	23
187	Hydrodynamic Characteristics and Expansion Behavior of Beds Containing Single and Binary Mixtures of Particles. Industrial & Engineering Chemistry Research, 2007, 46, 4686-4694.	1.8	4
188	Influenza Vaccines â€“ Challenges in Mammalian Cell Culture Technology. , 2007, , 503-508.		3
189	Serum-free Influenza Vaccine Production with MDCK Cells in Wave-bioreactor and 5L-stirred Tank Bioreactor. , 2007, , 563-565.		1
190	Purification of cell culture-derived human influenza A virus by size-exclusion and anion-exchange chromatography. Biotechnology and Bioengineering, 2007, 96, 932-944.	1.7	87
191	Harvesting and concentration of human influenza A virus produced in serum-free mammalian cell culture for the production of vaccines. Biotechnology and Bioengineering, 2007, 97, 73-85.	1.7	60
192	Characterization of a three bacteria mixed culture in a chemostat: Evaluation and application of a quantitative terminal-restriction fragment length polymorphism (T-RFLP) analysis for absolute and species specific cell enumeration. Biotechnology and Bioengineering, 2007, 96, 738-756.	1.7	25
193	Direct capture of influenza A virus from cell culture supernatant with Sartobind anion-exchange membrane adsorbers. Journal of Membrane Science, 2007, 299, 251-260.	4.1	78
194	High-performance anion-exchange chromatography using on-line electrolytic eluent generation for the determination of more than 25 intermediates from energy metabolism of mammalian cells in culture. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2006, 843, 216-226.	1.2	33
195	Coexistence in the chemostat as a result of metabolic by-products. Journal of Mathematical Biology, 2006, 53, 556-584.	0.8	24
196	Downstream processing of MDCK cell-derived equine influenza virus. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2005, 823, 75-81.	1.2	32
197	Mathematical model of influenza A virus production in large-scale microcarrier culture. Biotechnology and Bioengineering, 2005, 90, 46-58.	1.7	120
198	Neuraminidase activity assays for monitoring MDCK cell culture derived influenza virus. Journal of Virological Methods, 2004, 122, 9-15.	1.0	52

#	Article	IF	Citations
199	Amino acid analysis in mammalian cell culture media containing serum and high glucose concentrations by anion exchange chromatography and integrated pulsed amperometric detection. Analytical Biochemistry, 2004, 335, 119-125.	1.1	26
200	Quantitative Study of Electrokinetic Transport in Porous Media by Confocal Laser Scanning Microscopy. Langmuir, 2003, 19, 4527-4531.	1.6	30
201	Adaption of a fragment analysis technique to an automated high-throughput multicapillary electrophoresis device for the precise qualitative and quantitative characterization of microbial communities. Electrophoresis, 2002, 23, 1070-1079.	1.3	33
202	Development of Bioprocess Concepts on Vaccine Production: Influenza Virus as an Example. , 2001, , 344-346.		3
203	Production and properties of a bifunctional fusion protein that mediates attachment of vero cells to cellulosic matrices. Biotechnology and Bioengineering, 1995, 47, 147-154.	1.7	12