

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	Metagenome and metaproteome analyses of microbial communities in mesophilic biogas-producing anaerobic batch fermentations indicate concerted plant carbohydrate degradation. <i>Systematic and Applied Microbiology</i> , 2013, 36, 330-338.	1.2	182
2	Metabolic effects of influenza virus infection in cultured animal cells: Intra- and extracellular metabolite profiling. <i>BMC Systems Biology</i> , 2010, 4, 61.	3.0	174
3	Comparative Performance of Four Methods for High-throughput Glycosylation Analysis of Immunoglobulin G in Genetic and Epidemiological Research. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 1598-1610.	2.5	169
4	The MetaProteomeAnalyzer: A Powerful Open-Source Software Suite for Metaproteomics Data Analysis and Interpretation. <i>Journal of Proteome Research</i> , 2015, 14, 1557-1565.	1.8	169
5	Single-cell analysis and stochastic modelling unveil large cell-to-cell variability in influenza A virus infection. <i>Nature Communications</i> , 2015, 6, 8938.	5.8	129
6	Continuous cell lines as a production system for influenza vaccines. <i>Expert Review of Vaccines</i> , 2009, 8, 1681-1692.	2.0	128
7	Navigating through metaproteomics data: A logbook of database searching. <i>Proteomics</i> , 2015, 15, 3439-3453.	1.3	128
8	Mathematical model of influenza A virus production in large-scale microcarrier culture. <i>Biotechnology and Bioengineering</i> , 2005, 90, 46-58.	1.7	120
9	Downstream processing of cell culture-derived virus particles. <i>Expert Review of Vaccines</i> , 2011, 10, 1451-1475.	2.0	117
10	Monitoring influenza virus content in vaccine production: Precise assays for the quantitation of hemagglutination and neuraminidase activity. <i>Biologicals</i> , 2008, 36, 145-161.	0.5	113
11	Substitution of Glutamine by Pyruvate To Reduce Ammonia Formation and Growth Inhibition of Mammalian Cells. <i>Biotechnology Progress</i> , 2008, 21, 58-69.	1.3	104
12	Bioreactors for high cell density and continuous multi-stage cultivations: options for process intensification in cell culture-based viral vaccine production. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 2121-2132.	1.7	104
13	Metaproteomics of complex microbial communities in biogas plants. <i>Microbial Biotechnology</i> , 2015, 8, 749-763.	2.0	98
14	Quantitative analysis of cellular proteome alterations in human influenza A virus-infected mammalian cell lines. <i>Proteomics</i> , 2009, 9, 3316-3327.	1.3	97
15	Searching for a needle in a stack of needles: challenges in metaproteomics data analysis. <i>Molecular BioSystems</i> , 2013, 9, 578-585.	2.9	93
16	Purification of cell culture-derived human influenza A virus by size-exclusion and anion-exchange chromatography. <i>Biotechnology and Bioengineering</i> , 2007, 96, 932-944.	1.7	87
17	Glycan analysis by CE-LIF: Profiling influenza A virus hemagglutinin glycosylation during vaccine production. <i>Electrophoresis</i> , 2008, 29, 4203-4214.	1.3	86
18	High cell density cultivations by alternating tangential flow (ATF) perfusion for influenza A virus production using suspension cells. <i>Vaccine</i> , 2014, 32, 2770-2781.	1.7	86

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19	Simultaneous extraction of several metabolites of energy metabolism and related substances in mammalian cells: Optimization using experimental design. <i>Analytical Biochemistry</i> , 2008, 373, 349-369.	1.1	85
20	MDCK and Vero cells for influenza virus vaccine production: a one-to-one comparison up to lab-scale bioreactor cultivation. <i>Applied Microbiology and Biotechnology</i> , 2010, 88, 461-475.	1.7	79
21	Direct capture of influenza A virus from cell culture supernatant with Sartobind anion-exchange membrane adsorbers. <i>Journal of Membrane Science</i> , 2007, 299, 251-260.	4.1	78
22	Glycan analysis in cell culture-based influenza vaccine production: Influence of host cell line and virus strain on the glycosylation pattern of viral hemagglutinin. <i>Vaccine</i> , 2009, 27, 4325-4336.	1.7	76
23	Continuous Influenza Virus Production in Cell Culture Shows a Periodic Accumulation of Defective Interfering Particles. <i>PLoS ONE</i> , 2013, 8, e72288.	1.1	76
24	Bioreactor concepts for cell culture-based viral vaccine production. <i>Expert Review of Vaccines</i> , 2015, 14, 1181-1195.	2.0	76
25	Towards personalized diagnostics via longitudinal study of the human plasma N-glycome. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 1728-1738.	1.1	72
26	Colonic metaproteomic signatures of active bacteria and the host in obesity. <i>Proteomics</i> , 2015, 15, 3544-3552.	1.3	70
27	High yields of influenza A virus in Madin-Darby canine kidney cells are promoted by an insufficient interferon-induced antiviral state. <i>Journal of General Virology</i> , 2010, 91, 1754-1763.	1.3	68
28	Multiscale Modeling of Influenza A Virus Infection Supports the Development of Direct-Acting Antivirals. <i>PLoS Computational Biology</i> , 2013, 9, e1003372.	1.5	68
29	Site-specific O-Glycosylation Analysis of Human Blood Plasma Proteins. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 624-641.	2.5	67
30	A Robust and Universal Metaproteomics Workflow for Research Studies and Routine Diagnostics Within 24 h Using Phenol Extraction, FASP Digest, and the MetaProteomeAnalyzer. <i>Frontiers in Microbiology</i> , 2019, 10, 1883.	1.5	66
31	Lectin-affinity chromatography for downstream processing of MDCK cell culture derived human influenza A viruses. <i>Vaccine</i> , 2007, 25, 939-947.	1.7	65
32	MPA Portable: A Stand-Alone Software Package for Analyzing Metaproteome Samples on the Go. <i>Analytical Chemistry</i> , 2018, 90, 685-689.	3.2	65
33	Community shifts in a well-operating agricultural biogas plant: how process variations are handled by the microbiome. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 7791-7803.	1.7	64
34	Modeling the Intracellular Dynamics of Influenza Virus Replication To Understand the Control of Viral RNA Synthesis. <i>Journal of Virology</i> , 2012, 86, 7806-7817.	1.5	63
35	Harvesting and concentration of human influenza A virus produced in serum-free mammalian cell culture for the production of vaccines. <i>Biotechnology and Bioengineering</i> , 2007, 97, 73-85.	1.7	60
36	Toward Animal Cell Culture-Based Influenza Vaccine Design: Viral Hemagglutinin N-Glycosylation Markedly Impacts Immunogenicity. <i>Journal of Immunology</i> , 2013, 190, 220-230.	0.4	59

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37	Modeling the intracellular replication of influenza A virus in the presence of defective interfering RNAs. <i>Virus Research</i> , 2016, 213, 90-99.	1.1	59
38	Influenza virus intracellular replication dynamics, release kinetics, and particle morphology during propagation in MDCK cells. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 7181-7192.	1.7	58
39	Steric exclusion chromatography for purification of cell culture-derived influenza A virus using regenerated cellulose membranes and polyethylene glycol. <i>Journal of Chromatography A</i> , 2017, 1483, 110-119.	1.8	57
40	Impact of defective interfering particles on virus replication and antiviral host response in cell culture-based influenza vaccine production. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 8999-9008.	1.7	56
41	Neuraminidase activity assays for monitoring MDCK cell culture derived influenza virus. <i>Journal of Virological Methods</i> , 2004, 122, 9-15.	1.0	52
42	A flow-through chromatography process for influenza A and B virus purification. <i>Journal of Virological Methods</i> , 2014, 207, 45-53.	1.0	52
43	Metaproteomics of activated sludge from a wastewater treatment plant – A pilot study. <i>Proteomics</i> , 2015, 15, 3596-3601.	1.3	52
44	Glycomic Characterization of Induced Pluripotent Stem Cells Derived from a Patient Suffering from Phosphomannomutase 2 Congenital Disorder of Glycosylation (PMM2-CDG). <i>Molecular and Cellular Proteomics</i> , 2016, 15, 1435-1452.	2.5	51
45	Sulfated membrane adsorbers for economic pseudo-affinity capture of influenza virus particles. <i>Biotechnology and Bioengineering</i> , 2009, 103, 1144-1154.	1.7	49
46	How can measurement, monitoring, modeling and control advance cell culture in industrial biotechnology?. <i>Biotechnology Journal</i> , 2012, 7, 1522-1529.	1.8	49
47	Comparison of Metabolic Flux Distributions for MDCK Cell Growth in Glutamine- and Pyruvate-Containing Media. <i>Biotechnology Progress</i> , 2008, 24, 311-320.	1.3	48
48	Vaccine Production. <i>Methods in Biotechnology</i> , 2007, , 457-473.	0.2	47
49	Purification of cell culture-derived modified vaccinia ankara virus by pseudo-affinity membrane adsorbers and hydrophobic interaction chromatography. <i>Biotechnology and Bioengineering</i> , 2010, 107, 312-320.	1.7	47
50	Production of high-titer human influenza A virus with adherent and suspension MDCK cells cultured in a single-use hollow fiber bioreactor. <i>Vaccine</i> , 2014, 32, 1003-1011.	1.7	47
51	Metabolic flux model for an anchorage-dependent MDCK cell line: Characteristic growth phases and minimum substrate consumption flux distribution. <i>Biotechnology and Bioengineering</i> , 2008, 101, 135-152.	1.7	44
52	Flow cytometric viability assessment of lactic acid bacteria starter cultures produced by fluidized bed drying. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 4897-4909.	1.7	44
53	Development of a high-throughput glycoanalysis method for the characterization of oligosaccharides in human milk utilizing multiplexed capillary gel electrophoresis with laser-induced fluorescence detection. <i>Electrophoresis</i> , 2013, 34, 2323-2336.	1.3	43
54	Real-time RT-qPCR assay for the analysis of human influenza A virus transcription and replication dynamics. <i>Journal of Virological Methods</i> , 2010, 168, 63-71.	1.0	42

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55	Characterization of flow conditions in 2 L and 20 L wave bioreactors [®] using computational fluid dynamics. <i>Biotechnology Progress</i> , 2010, 26, 101-110.	1.3	42
56	Metaproteome analysis of sewage sludge from membrane bioreactors. <i>Proteomics</i> , 2011, 11, 2738-2744.	1.3	40
57	Metaproteome analysis to determine the metabolically active part of a thermophilic microbial community producing biogas from agricultural biomass. <i>Canadian Journal of Microbiology</i> , 2012, 58, 917-922.	0.8	40
58	Impact of Host Cell Line Adaptation on Quasispecies Composition and Glycosylation of Influenza A Virus Hemagglutinin. <i>PLoS ONE</i> , 2011, 6, e27989.	1.1	39
59	N-Glycosylation Fingerprinting of Viral Glycoproteins by xCGE-LIF. <i>Methods in Molecular Biology</i> , 2015, 1331, 123-143.	0.4	39
60	CAP, a new human suspension cell line for influenza virus production. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 111-122.	1.7	38
61	Process intensification of EB66 [®] cell cultivations leads to high-yield yellow fever and Zika virus production. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 8725-8737.	1.7	38
62	A Novel Type of Influenza A Virus-Derived Defective Interfering Particle with Nucleotide Substitutions in Its Genome. <i>Journal of Virology</i> , 2019, 93, .	1.5	38
63	The Fine Art of Destruction: A Guide to In-Depth Glycoproteomic Analyses—Exploiting the Diagnostic Potential of Fragment Ions. <i>Proteomics</i> , 2018, 18, e1800282.	1.3	36
64	One pot synthesis of GDP-mannose by a multi-enzyme cascade for enzymatic assembly of lipid-linked oligosaccharides. <i>Biotechnology and Bioengineering</i> , 2018, 115, 192-205.	1.7	35
65	glyXtool ^{MS} : An Open-Source Pipeline for Semiautomated Analysis of Glycopeptide Mass Spectrometry Data. <i>Analytical Chemistry</i> , 2018, 90, 11908-11916.	3.2	35
66	Live attenuated influenza viruses produced in a suspension process with avian AGE1.CR.pIX cells. <i>BMC Biotechnology</i> , 2012, 12, 79.	1.7	34
67	High-cell-density cultivations to increase MVA virus production. <i>Vaccine</i> , 2018, 36, 3124-3133.	1.7	34
68	Critical Assessment of MetaProteome Investigation (CAMPI): a multi-laboratory comparison of established workflows. <i>Nature Communications</i> , 2021, 12, 7305.	5.8	34
69	Adaption of a fragment analysis technique to an automated high-throughput multicapillary electrophoresis device for the precise qualitative and quantitative characterization of microbial communities. <i>Electrophoresis</i> , 2002, 23, 1070-1079.	1.3	33
70	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. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2006, 843, 216-226.	1.2	33
71	A flow cytometric method for viability assessment of <i>Staphylococcus aureus</i> and <i>Burkholderia cepacia</i> in mixed culture. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2012, 81A, 1055-1066.	1.1	33
72	Species-specific viability analysis of <i>Pseudomonas aeruginosa</i> , <i>Burkholderia cepacia</i> and <i>Staphylococcus aureus</i> in mixed culture by flow cytometry. <i>BMC Microbiology</i> , 2014, 14, 56.	1.3	33

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73	Downstream processing of MDCK cell-derived equine influenza virus. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005, 823, 75-81.	1.2	32
74	Evaluation of criteria for bioreactor comparison and operation standardization for mammalian cell culture. <i>Engineering in Life Sciences</i> , 2012, 12, 518-528.	2.0	32
75	Early changes in the metabolic profile of activated CD8+ T cells. <i>BMC Cell Biology</i> , 2016, 17, 28.	3.0	31
76	Purification of cell culture-derived influenza A virus via continuous anion exchange chromatography on monoliths. <i>Vaccine</i> , 2018, 36, 3153-3160.	1.7	31
77	Quantitative Study of Electrokinetic Transport in Porous Media by Confocal Laser Scanning Microscopy. <i>Langmuir</i> , 2003, 19, 4527-4531.	1.6	30
78	A membrane-based purification process for cell culture-derived influenza A virus. <i>Journal of Biotechnology</i> , 2016, 220, 12-20.	1.9	30
79	Purification of influenza virus-like particles using sulfated cellulose membrane adsorbers. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 1988-1996.	1.6	30
80	Purification of cell culture-derived influenza virus A/Puerto Rico/8/34 by membrane-based immobilized metal affinity chromatography. <i>Journal of Virological Methods</i> , 2009, 161, 312-316.	1.0	29
81	Virus-host cell interactions in vaccine production cell lines infected with different human influenza A virus variants: A proteomic approach. <i>Journal of Proteomics</i> , 2010, 73, 1656-1669.	1.2	29
82	RedCom: A strategy for reduced metabolic modeling of complex microbial communities and its application for analyzing experimental datasets from anaerobic digestion. <i>PLoS Computational Biology</i> , 2019, 15, e1006759.	1.5	29
83	Performance of an acoustic settler versus a hollow fiber-based ATF technology for influenza virus production in perfusion. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 4877-4888.	1.7	29
84	Trypsin promotes efficient influenza vaccine production in MDCK cells by interfering with the antiviral host response. <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 601-611.	1.7	28
85	Semi-perfusion cultures of suspension MDCK cells enable high cell concentrations and efficient influenza A virus production. <i>Vaccine</i> , 2019, 37, 7003-7010.	1.7	28
86	Single-Use Capture Purification of Adeno-Associated Viral Gene Transfer Vectors by Membrane-Based Steric Exclusion Chromatography. <i>Human Gene Therapy</i> , 2021, 32, 959-974.	1.4	28
87	Effects of a recombinant gene expression on ColE1-like plasmid segregation in <i>Escherichia coli</i> . <i>BMC Biotechnology</i> , 2011, 11, 18.	1.7	27
88	Cell culture-based production of defective interfering particles for influenza antiviral therapy. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 1167-1177.	1.7	27
89	SDS-PAGE fractionation to increase metaproteomic insight into the taxonomic and functional composition of microbial communities for biogas plant samples. <i>Engineering in Life Sciences</i> , 2018, 18, 498-509.	2.0	27
90	A system for production of defective interfering particles in the absence of infectious influenza A virus. <i>PLoS ONE</i> , 2019, 14, e0212757.	1.1	27

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91	Amino acid analysis in mammalian cell culture media containing serum and high glucose concentrations by anion exchange chromatography and integrated pulsed amperometric detection. <i>Analytical Biochemistry</i> , 2004, 335, 119-125.	1.1	26
92	Flow cytometric monitoring of influenza A virus infection in MDCK cells during vaccine production. <i>BMC Biotechnology</i> , 2008, 8, 45.	1.7	26
93	Experimental characterization of flow conditions in 2â€ and 20â€ bioreactors with waveâ€ induced motion. <i>Biotechnology Progress</i> , 2011, 27, 402-409.	1.3	26
94	Propagation of Brazilian Zika virus strains in static and suspension cultures using Vero and BHK cells. <i>Vaccine</i> , 2018, 36, 3140-3145.	1.7	26
95	Establishment of a five-enzyme cell-free cascade for the synthesis of uridine diphosphate N-acetylglucosamine. <i>Journal of Biotechnology</i> , 2018, 283, 120-129.	1.9	26
96	Hydrophobic-interaction chromatography for purification of influenza A and B virus. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2019, 1117, 103-117.	1.2	26
97	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. <i>Biotechnology and Bioengineering</i> , 2007, 96, 738-756.	1.7	25
98	Growth behavior of number distributed adherent MDCK cells for optimization in microcarrier cultures. <i>Biotechnology Progress</i> , 2009, 25, 1717-1731.	1.3	25
99	OP7, a novel influenza A virus defective interfering particle: production, purification, and animal experiments demonstrating antiviral potential. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 129-146.	1.7	25
100	Coexistence in the chemostat as a result of metabolic by-products. <i>Journal of Mathematical Biology</i> , 2006, 53, 556-584.	0.8	24
101	Impact of adsorbents selection on capture efficiency of cell culture derived human influenza viruses. <i>Journal of Biotechnology</i> , 2007, 131, 309-317.	1.9	24
102	Atmospheric Pressure Free Liquid Infrared MALDI Mass Spectrometry: Toward a combined ESI/MALDI-Liquid Chromatography Interface. <i>Analytical Chemistry</i> , 2009, 81, 443-452.	3.2	24
103	Effect of influenza virus infection on key metabolic enzyme activities in MDCK cells. <i>BMC Proceedings</i> , 2011, 5, P129.	1.8	24
104	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. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 275.	2.0	24
105	Multiscale modeling of influenza A virus replication in cell cultures predicts infection dynamics for highly different infection conditions. <i>PLoS Computational Biology</i> , 2019, 15, e1006819.	1.5	24
106	High cell density perfusion process for high yield of influenza A virus production using MDCK suspension cells. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 1421-1434.	1.7	24
107	Concentration Polarization and Nonequilibrium Electroosmotic Slip in Dense Multiparticle Systems. <i>Langmuir</i> , 2007, 23, 9271-9281.	1.6	23
108	Capture of cell culture-derived influenza virus by lectins: Strain independent, but host cell dependent. <i>Journal of Virological Methods</i> , 2008, 154, 61-68.	1.0	23

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109	Impact of cultivation conditions on <i>N</i> -glycosylation of influenza virus a hemagglutinin produced in MDCK cell culture. <i>Biotechnology and Bioengineering</i> , 2013, 110, 1691-1703.	1.7	23
110	Influenza A virus production in a single-use orbital shaken bioreactor with ATF or TFF perfusion systems. <i>Vaccine</i> , 2019, 37, 7011-7018.	1.7	23
111	Application of an Inclined Settler for Cell Culture-Based Influenza A Virus Production in Perfusion Mode. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 672.	2.0	23
112	Vaccine Production: Upstream Processing with Adherent or Suspension Cell Lines. <i>Methods in Molecular Biology</i> , 2014, 1104, 371-393.	0.4	23
113	Capturing of cell culture-derived modified Vaccinia Ankara virus by ion exchange and pseudo-affinity membrane adsorbers. <i>Biotechnology and Bioengineering</i> , 2010, 105, 761-769.	1.7	22
114	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. <i>Viruses</i> , 2020, 12, 71.	1.5	22
115	A novel concept combining experimental and mathematical analysis for the identification of unknown interspecies effects in a mixed culture. <i>Biotechnology and Bioengineering</i> , 2011, 108, 1900-1911.	1.7	21
116	Proteomic tracking and analysis of a bacterial mixed culture. <i>Proteomics</i> , 2012, 12, 1893-1901.	1.3	21
117	Size-exclusion chromatography as a linear transfer system: Purification of human influenza virus as an example. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 873, 102-112.	1.2	20
118	Segregated Mathematical Model for Growth of Anchorage-Dependent MDCK Cells in Microcarrier Culture. <i>Biotechnology Progress</i> , 2008, 24, 110-119.	1.3	20
119	Predicting compositions of microbial communities from stoichiometric models with applications for the biogas process. <i>Biotechnology for Biofuels</i> , 2016, 9, 17.	6.2	20
120	Optimization of cell culture-derived influenza A virus particles purification using sulfated cellulose membrane adsorbers. <i>Engineering in Life Sciences</i> , 2018, 18, 29-39.	2.0	20
121	High titer MVA and influenza A virus production using a hybrid fed-batch/perfusion strategy with an ATF system. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 3025-3035.	1.7	20
122	Monitoring changes in proteome during stepwise adaptation of a MDCK cell line from adherence to growth in suspension. <i>Vaccine</i> , 2015, 33, 4269-4280.	1.7	19
123	Use of sulfated cellulose membrane adsorbers for chromatographic purification of cell cultured-derived influenza A and B viruses. <i>Separation and Purification Technology</i> , 2019, 226, 350-358.	3.9	19
124	Virus harvesting in perfusion culture: Choosing the right type of hollow fiber membrane. <i>Biotechnology and Bioengineering</i> , 2020, 117, 3040-3052.	1.7	19
125	Antiviral Activity of Influenza A Virus Defective Interfering Particles against SARS-CoV-2 Replication In Vitro through Stimulation of Innate Immunity. <i>Cells</i> , 2021, 10, 1756.	1.8	19
126	The avian cell line AGE1.CR.pIX characterized by metabolic flux analysis. <i>BMC Biotechnology</i> , 2014, 14, 72.	1.7	18

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127	Efficient influenza A virus production in high cell density using the novel porcine suspension cell line PBG.PK2.1. <i>Vaccine</i> , 2019, 37, 7019-7028.	1.7	18
128	Cell culture-based production and in vivo characterization of purely clonal defective interfering influenza virus particles. <i>BMC Biology</i> , 2021, 19, 91.	1.7	18
129	Semi-continuous Propagation of Influenza A Virus and Its Defective Interfering Particles: Analyzing the Dynamic Competition To Select Candidates for Antiviral Therapy. <i>Journal of Virology</i> , 2021, 95, e0117421.	1.5	18
130	Distributed modeling of human influenza a virus–host cell interactions during vaccine production. <i>Biotechnology and Bioengineering</i> , 2013, 110, 2252-2266.	1.7	16
131	Efficient influenza B virus propagation due to deficient interferon-induced antiviral activity in MDCK cells. <i>Vaccine</i> , 2011, 29, 7125-7129.	1.7	15
132	Proteome analysis of virus–host cell interaction: rabies virus replication in Vero cells in two different media. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 5493-5506.	1.7	15
133	Efficient and stable production of Modified Vaccinia Ankara virus in two-stage semi-continuous and in continuous stirred tank cultivation systems. <i>PLoS ONE</i> , 2017, 12, e0182553.	1.1	15
134	Enzymatic Cascade Synthesis Provides Novel Linear Human Milk Oligosaccharides as Reference Standards for xCGE-LIF Based High-Throughput Analysis. <i>Biotechnology Journal</i> , 2019, 14, 1800305.	1.8	15
135	glyXalign: High-throughput migration time alignment preprocessing of electrophoretic data retrieved via multiplexed capillary gel electrophoresis with laser-induced fluorescence detection–based glycoprofiling. <i>Electrophoresis</i> , 2013, 34, 2311-2315.	1.3	14
136	Fractionation of biogas plant sludge material improves metaproteomic characterization to investigate metabolic activity of microbial communities. <i>Proteomics</i> , 2015, 15, 3585-3589.	1.3	14
137	SARS-CoV-2 Production in a Scalable High Cell Density Bioreactor. <i>Vaccines</i> , 2021, 9, 706.	2.1	14
138	Cell culture–based production of defective interfering influenza A virus particles in perfusion mode using an alternating tangential flow filtration system. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 7251-7264.	1.7	14
139	Production and properties of a bifunctional fusion protein that mediates attachment of vero cells to cellulosic matrices. <i>Biotechnology and Bioengineering</i> , 1995, 47, 147-154.	1.7	12
140	Interspecies effects in a ceftazidime-treated mixed culture of <i>Pseudomonas aeruginosa</i> , <i>Burkholderia cepacia</i> and <i>Staphylococcus aureus</i> : analysis at the single-species level. <i>Journal of Antimicrobial Chemotherapy</i> , 2011, 66, 138-145.	1.3	12
141	Metaproteomics Applied to Activated Sludge for Industrial Wastewater Treatment Revealed a Dominant Methylophilic Metabolism of <i>Hyphomicrobium zavarzinii</i> . <i>Microbial Ecology</i> , 2016, 72, 9-13.	1.4	12
142	Production of Modified Vaccinia Ankara Virus by Intensified Cell Cultures: A Comparison of Platform Technologies for Viral Vector Production. <i>Biotechnology Journal</i> , 2021, 16, e2000024.	1.8	12
143	A high cell density perfusion process for Modified Vaccinia virus Ankara production: Process integration with inline DNA digestion and cost analysis. <i>Biotechnology and Bioengineering</i> , 2021, 118, 4720-4734.	1.7	12
144	Identification of Growth Phases and Influencing Factors in Cultivations with AGE1.HN Cells Using Set-Based Methods. <i>PLoS ONE</i> , 2013, 8, e68124.	1.1	11

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145	Improvement of electrospray stability in negative ion mode for nano-PGC-LC-MS glycoanalysis via post-column make-up flow. <i>Glycoconjugate Journal</i> , 2018, 35, 499-509.	1.4	11
146	Fecal Metaproteomics Reveals Reduced Gut Inflammation and Changed Microbial Metabolism Following Lifestyle-Induced Weight Loss. <i>Biomolecules</i> , 2021, 11, 726.	1.8	11
147	Specific ion effects on the particle size distributions of cell culture-derived influenza A virus particles within the Hofmeister series. <i>Engineering in Life Sciences</i> , 2017, 17, 470-478.	2.0	10
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