

Manuel J T Carrondo

List of Publications by Year in descending order

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184
papers

7,348
citations

50170

46
h-index

79541

73
g-index

187
all docs

187
docs citations

187
times ranked

6348
citing authors

#	ARTICLE	IF	CITATIONS
1	Virus-like particles in vaccine development. <i>Expert Review of Vaccines</i> , 2010, 9, 1149-1176.	2.0	671
2	Large-scale production and purification of VLP-based vaccines. <i>Journal of Invertebrate Pathology</i> , 2011, 107, S42-S48.	1.5	201
3	Human liver cell spheroids in extended perfusion bioreactor culture for repeated-dose drug testing. <i>Hepatology</i> , 2012, 55, 1227-1236.	3.6	195
4	Advances in on-line monitoring and control of mammalian cell cultures: Supporting the PAT initiative. <i>Biotechnology Advances</i> , 2009, 27, 726-732.	6.0	176
5	Model for carbon metabolism in biological phosphorus removal processes based on in vivo ¹³ C-NMR labelling experiments. <i>Water Research</i> , 1996, 30, 2128-2138.	5.3	170
6	Microencapsulation Technology: A Powerful Tool for Integrating Expansion and Cryopreservation of Human Embryonic Stem Cells. <i>PLoS ONE</i> , 2011, 6, e23212.	1.1	151
7	Effects of ammonia and lactate on growth, metabolism, and productivity of BHK cells. <i>Enzyme and Microbial Technology</i> , 2000, 27, 43-52.	1.6	136
8	Improving expansion of pluripotent human embryonic stem cells in perfused bioreactors through oxygen control. <i>Journal of Biotechnology</i> , 2010, 148, 208-215.	1.9	135
9	Cell density effect in the baculovirus-insect cells system: A quantitative analysis of energetic metabolism. <i>Biotechnology and Bioengineering</i> , 2009, 104, 162-180.	1.7	110
10	Improved virus purification processes for vaccines and gene therapy. <i>Biotechnology and Bioengineering</i> , 2015, 112, 843-857.	1.7	105
11	Metabolic shifts by nutrient manipulation in continuous cultures of BHK cells. , 1999, 66, 104-113.		102
12	Downstream processing of triple layered rotavirus like particles. <i>Journal of Biotechnology</i> , 2007, 127, 452-461.	1.9	100
13	Measurement and prediction of distribution coefficients for wastewater aromatic solutes. <i>Environmental Science & Technology</i> , 1983, 17, 582-590.	4.6	99
14	Triple layered rotavirus VLP production: Kinetics of vector replication, mRNA stability and recombinant protein production. <i>Journal of Biotechnology</i> , 2005, 120, 72-82.	1.9	91
15	Purification of retroviral vectors for clinical application: Biological implications and technological challenges. <i>Journal of Biotechnology</i> , 2007, 127, 520-541.	1.9	91
16	Extending Hepatocyte Functionality for Drug-Testing Applications Using High-Viscosity Alginate-Encapsulated Three-Dimensional Cultures in Bioreactors. <i>Tissue Engineering - Part C: Methods</i> , 2010, 16, 1223-1232.	1.1	85
17	In situ 2D fluorometry and chemometric monitoring of mammalian cell cultures. <i>Biotechnology and Bioengineering</i> , 2009, 102, 1098-1106.	1.7	84
18	Anion-exchange membrane chromatography for purification of rotavirus-like particles. <i>Journal of Membrane Science</i> , 2008, 311, 270-283.	4.1	83

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19	Metabolic signatures of GSâ€CHO cell clones associated with butyrate treatment and culture phase transition. <i>Biotechnology and Bioengineering</i> , 2013, 110, 3244-3257.	1.7	80
20	Purification of recombinant baculoviruses for gene therapy using membrane processes. <i>Gene Therapy</i> , 2009, 16, 766-775.	2.3	79
21	Hybrid elementary flux analysis/nonparametric modeling: application for bioprocess control. <i>BMC Bioinformatics</i> , 2007, 8, 30.	1.2	77
22	Improving baculovirus production at high cell density through manipulation of energy metabolism. <i>Metabolic Engineering</i> , 2010, 12, 39-52.	3.6	77
23	Metabolic responses of CHO cells to limitation of key amino acids. <i>Biotechnology and Bioengineering</i> , 2014, 111, 2095-2106.	1.7	76
24	Optimization of the production of virus-like particles in insect cells. , 1998, 60, 408-418.		75
25	Towards an Extended Functional Hepatocyte<i>In Vitro</i> Culture. <i>Tissue Engineering - Part C: Methods</i> , 2009, 15, 157-167.	1.1	74
26	A novel recombinant virus-like particle vaccine for prevention of porcine parvovirus-induced reproductive failure. <i>Vaccine</i> , 2006, 24, 5481-5490.	1.7	71
27	Error assessment in recombinant baculovirus titration: Evaluation of different methods. <i>Journal of Virological Methods</i> , 2009, 159, 69-80.	1.0	71
28	Perfusion of 3D encapsulated hepatocytesâ€A synergistic effect enhancing longâ€term functionality in bioreactors. <i>Biotechnology and Bioengineering</i> , 2011, 108, 41-49.	1.7	71
29	Downstream Processing of Lentiviral Vectors: Releasing Bottlenecks. <i>Human Gene Therapy Methods</i> , 2012, 23, 255-263.	2.1	71
30	Insect cells as a production platform of complex virus-like particles. <i>Expert Review of Vaccines</i> , 2013, 12, 225-236.	2.0	70
31	Current challenges in biotherapeutic particles manufacturing. <i>Expert Opinion on Biological Therapy</i> , 2020, 20, 451-465.	1.4	70
32	Virus-like particle production at low multiplicities of infection with the baculovirus insect cell system. <i>Biotechnology and Bioengineering</i> , 2003, 84, 245-253.	1.7	67
33	Synthetic biology for bioengineering virusâ€like particle vaccines. <i>Biotechnology and Bioengineering</i> , 2019, 116, 919-935.	1.7	66
34	Combining Hypoxia and Bioreactor Hydrodynamics Boosts Induced Pluripotent Stem Cell Differentiation Towards Cardiomyocytes. <i>Stem Cell Reviews and Reports</i> , 2014, 10, 786-801.	5.6	65
35	Bioprocess integration for human mesenchymal stem cells: From up to downstream processing scale-up to cell proteome characterization. <i>Journal of Biotechnology</i> , 2017, 248, 87-98.	1.9	61
36	Cell Growth Arrest by Nucleotides, Nucleosides and Bases as a Tool for Improved Production of Recombinant Proteins. <i>Biotechnology Progress</i> , 2003, 19, 69-83.	1.3	60

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37	Production of oncolytic adenovirus and human mesenchymal stem cells in a single-use, Vertical-Wheel bioreactor system: Impact of bioreactor design on performance of microcarrier-based cell culture processes. <i>Biotechnology Progress</i> , 2015, 31, 1600-1612.	1.3	60
38	Rational design and optimization of downstream processes of virus particles for biopharmaceutical applications: Current advances. <i>Biotechnology Advances</i> , 2011, 29, 869-878.	6.0	59
39	Production and purification of lentiviral vectors generated in 293T suspension cells with baculoviral vectors. <i>Gene Therapy</i> , 2011, 18, 531-538.	2.3	58
40	Towards purification of adenoviral vectors based on membrane technology. <i>Biotechnology Progress</i> , 2008, 24, 1290-1296.	1.3	56
41	Hydrodynamic effects on BHK cells grown as suspended natural aggregates. <i>Biotechnology and Bioengineering</i> , 1995, 46, 351-360.	1.7	55
42	Modelling and optimization of a recombinant BHK-21 cultivation process using hybrid grey-box systems. <i>Journal of Biotechnology</i> , 2005, 118, 290-303.	1.9	55
43	Scale-up of virus-like particles production: effects of sparging, agitation and bioreactor scale on cell growth, infection kinetics and productivity. <i>Journal of Biotechnology</i> , 2004, 107, 55-64.	1.9	54
44	Towards real-time monitoring of therapeutic protein quality in mammalian cell processes. <i>Current Opinion in Biotechnology</i> , 2014, 30, 161-167.	3.3	54
45	Baculovirus production for gene therapy: the role of cell density, multiplicity of infection and medium exchange. <i>Applied Microbiology and Biotechnology</i> , 2009, 81, 1041-1049.	1.7	52
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	Effect of viscosity upon hydrodynamically controlled natural aggregates of animal cells grown in stirred vessels. <i>Biotechnology Progress</i> , 1995, 11, 575-583.	1.3	48
48	Adenovirus purification by two-column, size-exclusion, simulated countercurrent chromatography. <i>Journal of Chromatography A</i> , 2014, 1347, 111-121.	1.8	48
49	Toward system-level understanding of baculovirus-host cell interactions: from molecular fundamental studies to large-scale proteomics approaches. <i>Frontiers in Microbiology</i> , 2012, 3, 391.	1.5	47
50	Exploring continuous and integrated strategies for the up- and downstream processing of human mesenchymal stem cells. <i>Journal of Biotechnology</i> , 2015, 213, 97-108.	1.9	47
51	Cultures of rat astrocytes challenged with a steady supply of glutamate: New model to study flux distribution in the glutamate-glutamine cycle. <i>Glia</i> , 2005, 51, 286-296.	2.5	46
52	Effect of refeed strategies and non-ammoniogenic medium on adenovirus production at high cell densities. <i>Journal of Biotechnology</i> , 2005, 119, 272-280.	1.9	45
53	Modeling rotavirus-like particles production in a baculovirus expression vector system: Infection kinetics, baculovirus DNA replication, mRNA synthesis and protein production. <i>Journal of Biotechnology</i> , 2007, 128, 875-894.	1.9	45
54	Merging bioreactor technology with 3D hepatocyte-fibroblast culturing approaches: Improved in vitro models for toxicological applications. <i>Toxicology in Vitro</i> , 2011, 25, 825-832.	1.1	45

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55	Screening anion-exchange chromatographic matrices for isolation of onco-retroviral vectors. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2006, 837, 59-68.	1.2	41
56	Hybrid metabolic flux analysis: combining stoichiometric and statistical constraints to model the formation of complex recombinant products. <i>BMC Systems Biology</i> , 2011, 5, 34.	3.0	41
57	Screening of Novel Excipients for Improving the Stability of Retroviral and Adenoviral Vectors. <i>Biotechnology Progress</i> , 2006, 22, 568-576.	1.3	39
58	Toward Preclinical Predictive Drug Testing for Metabolism and Hepatotoxicity by Using <i>In Vitro</i> Models Derived from Human Embryonic Stem Cells and Human Cell Lines – A Report on the Vitrocellomics EU-project. <i>ATLA Alternatives To Laboratory Animals</i> , 2011, 39, 147-171.	0.7	38
59	Filtration methodologies for the clarification and concentration of human mesenchymal stem cells. <i>Journal of Membrane Science</i> , 2015, 478, 117-129.	4.1	38
60	Bioprocess Iterative Batch-to-Batch Optimization Based on Hybrid Parametric/Nonparametric Models. <i>Biotechnology Progress</i> , 2006, 22, 247-258.	1.3	37
61	Systems biotechnology of animal cells: the road to prediction. <i>Trends in Biotechnology</i> , 2012, 30, 377-385.	4.9	36
62	Robust design of adenovirus purification by two-column, simulated moving-bed, size-exclusion chromatography. <i>Journal of Biotechnology</i> , 2015, 213, 109-119.	1.9	35
63	Advances in Lentivirus Purification. <i>Biotechnology Journal</i> , 2021, 16, e2000019.	1.8	35
64	Metabolically optimised BHK cell fed-batch cultures. <i>Journal of Biotechnology</i> , 2000, 80, 109-118.	1.9	34
65	Purification of adenoviral vectors using expanded bed chromatography. <i>Journal of Virological Methods</i> , 2006, 132, 121-126.	1.0	34
66	Scaleable purification process for gene therapy retroviral vectors. <i>Journal of Gene Medicine</i> , 2007, 9, 233-243.	1.4	33
67	Quantitation of MLV-based retroviral vectors using real-time RT-PCR. <i>Journal of Virological Methods</i> , 2004, 119, 115-119.	1.0	32
68	Stirred bioreactors for the expansion of adult pancreatic stem cells. <i>Annals of Anatomy</i> , 2009, 191, 104-115.	1.0	32
69	Impact of ligand density on the optimization of ion-exchange membrane chromatography for viral vector purification. <i>Biotechnology and Bioengineering</i> , 2011, 108, 1347-1359.	1.7	32
70	Synchronous fluorescence spectroscopy as a novel tool to enable PAT applications in bioprocesses. <i>Biotechnology and Bioengineering</i> , 2011, 108, 1852-1861.	1.7	32
71	Membrane-Based Approach for the Downstream Processing of Influenza Virus-Like Particles. <i>Biotechnology Journal</i> , 2019, 14, e1800570.	1.8	32
72	Proteolytic activity in infected and noninfected insect cells: Degradation of HIV-1 Pr55gag particles. <i>Biotechnology and Bioengineering</i> , 1999, 65, 133-143.	1.7	31

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73	NMR studies on energy metabolism of immobilized primary neurons and astrocytes during hypoxia, ischemia and hypoglycemia. <i>NMR in Biomedicine</i> , 2000, 13, 438-448.	1.6	31
74	Effect of osmotic pressure on the production of retroviral vectors: Enhancement in vector stability. <i>Biotechnology and Bioengineering</i> , 2006, 94, 322-329.	1.7	30
75	Hybrid semi-parametric mathematical systems: Bridging the gap between systems biology and process engineering. <i>Journal of Biotechnology</i> , 2007, 132, 418-425.	1.9	30
76	Quantitative Proteomics of <i>Spodoptera frugiperda</i> Cells during Growth and Baculovirus Infection. <i>PLoS ONE</i> , 2011, 6, e26444.	1.1	30
77	Combining stable insect cell lines with baculovirus-mediated expression for multi-HA influenza VLP production. <i>Vaccine</i> , 2018, 36, 3112-3123.	1.7	30
78	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
79	Characterization of <i>Ehrlichia ruminantium</i> replication and release kinetics in endothelial cell cultures. <i>Veterinary Microbiology</i> , 2005, 110, 87-96.	0.8	29
80	Effect of medium sugar source on the production of retroviral vectors for gene therapy. <i>Biotechnology and Bioengineering</i> , 2006, 94, 24-36.	1.7	28
81	Formation and disruption of animal cell aggregates in stirred vessels: Mechanisms and kinetic studies. <i>Chemical Engineering Science</i> , 1995, 50, 2747-2764.	1.9	27
82	Effect of ammonia production on intracellular pH: Consequent effect on adenovirus vector production. <i>Journal of Biotechnology</i> , 2007, 129, 433-438.	1.9	27
83	Scalable culture systems using different cell lines for the production of Peste des Petits ruminants vaccine. <i>Vaccine</i> , 2008, 26, 3305-3311.	1.7	27
84	Characterization and downstream processing of HIV-1 core and virus-like-particles produced in serum free medium. <i>Enzyme and Microbial Technology</i> , 2000, 26, 61-70.	1.6	26
85	Enhancement of Sf-9 Cell Growth and Longevity through Supplementation of Culture Medium with Hemolymph. <i>Biotechnology Progress</i> , 2003, 19, 58-63.	1.3	26
86	Process development for the mass production of <i>Ehrlichia ruminantium</i> . <i>Vaccine</i> , 2006, 24, 1716-1725.	1.7	26
87	Strategies for improved stability of Peste des Petits Ruminants Vaccine. <i>Vaccine</i> , 2011, 29, 4983-4991.	1.7	26
88	Universal label-free in-process quantification of influenza virus-like particles. <i>Biotechnology Journal</i> , 2017, 12, 1700031.	1.8	26
89	Novel culture strategy for human stem cell proliferation and neuronal differentiation. <i>Journal of Neuroscience Research</i> , 2007, 85, 3557-3566.	1.3	25
90	Impact of physicochemical parameters on in vitro assembly and disassembly kinetics of recombinant triple-layered rotavirus-like particles. <i>Biotechnology and Bioengineering</i> , 2009, 104, 674-686.	1.7	25

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91	Flexible 3D Cell-Based Platforms for the Discovery and Profiling of Novel Drugs Targeting <i>Plasmodium</i> Hepatic Infection. <i>ACS Infectious Diseases</i> , 2019, 5, 1831-1842.	1.8	25
92	Modeling Retrovirus Production for Gene Therapy. 1. Determination of Optimal Bioreaction Mode and Harvest Strategy. <i>Biotechnology Progress</i> , 2000, 16, 213-221.	1.3	24
93	Production of Core and Virus-Like Particles with Baculovirus Infected Insect Cells. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2002, 74, 183-206.	0.6	24
94	Purification and Characterization of an Anti-Apoptotic Protein Isolated from <i>Lonomia obliqua</i> Hemolymph. <i>Biotechnology Progress</i> , 2008, 21, 99-105.	1.3	24
95	Quantification of <i>Ehrlichia ruminantium</i> by real time PCR. <i>Veterinary Microbiology</i> , 2005, 107, 273-278.	0.8	23
96	Culturing primary brain astrocytes under a fully controlled environment in a novel bioreactor. <i>Journal of Neuroscience Research</i> , 2005, 79, 26-32.	1.3	23
97	Cellular targets for improved manufacturing of virus-based biopharmaceuticals in animal cells. <i>Trends in Biotechnology</i> , 2014, 32, 602-607.	4.9	23
98	Enabling PAT in insect cell bioprocesses: <i>In situ</i> monitoring of recombinant adeno-associated virus production by fluorescence spectroscopy. <i>Biotechnology and Bioengineering</i> , 2019, 116, 2803-2814.	1.7	23
99	Two-dimensional versus three-dimensional culture systems: Effects on growth and productivity of BHK cells. , 2000, 52, 429-432.		22
100	Two Different Serum-free Media and Osmolality Effect Upon Human 293 Cell Growth and Adenovirus Production. <i>Biotechnology Letters</i> , 2005, 27, 1809-1813.	1.1	22
101	Metabolic profiling of insect cell lines: Unveiling cell line determinants behind system's productivity. <i>Biotechnology and Bioengineering</i> , 2014, 111, 816-828.	1.7	22
102	Clinical-Grade Oncolytic Adenovirus Purification Using Polysorbate 20 as an Alternative for Cell Lysis. <i>Current Gene Therapy</i> , 2018, 18, 366-374.	0.9	22
103	Exosome-based therapeutics: Purification using semi-continuous multi-column chromatography. <i>Separation and Purification Technology</i> , 2019, 224, 515-523.	3.9	22
104	Evaluation of Novel Large Cut-Off Ultrafiltration Membranes for Adenovirus Serotype 5 (Ad5) Concentration. <i>PLoS ONE</i> , 2014, 9, e115802.	1.1	22
105	Effect of the purification process and the storage conditions on the efficacy of an inactivated vaccine against heartwater. <i>Vaccine</i> , 2007, 25, 4903-4913.	1.7	21
106	293 cell cycle synchronisation adenovirus vector production. <i>Biotechnology Progress</i> , 2009, 25, 235-243.	1.3	21
107	Efficient filtration strategies for the clarification of influenza virus-like particles derived from insect cells. <i>Separation and Purification Technology</i> , 2019, 218, 81-88.	3.9	21
108	Modeling Retrovirus Production for Gene Therapy. 2. Integrated Optimization of Bioreaction and Downstream Processing. <i>Biotechnology Progress</i> , 2000, 16, 350-357.	1.3	20

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109	Impact of grafting on the design of new membrane adsorbers for adenovirus purification. <i>Journal of Biotechnology</i> , 2014, 181, 1-11.	1.9	20
110	3D-printed ordered bed structures for chromatographic purification of enveloped and non-enveloped viral particles. <i>Separation and Purification Technology</i> , 2021, 254, 117681.	3.9	20
111	Immobilization of Primary Astrocytes and Neurons for On-Line Monitoring of Biochemical Processes by NMR. <i>Developmental Neuroscience</i> , 1996, 18, 478-483.	1.0	19
112	Adaptation of BHK cells producing a recombinant protein to serum-free media and protein-free medium. <i>Cytotechnology</i> , 1998, 26, 59-64.	0.7	19
113	Metabolism of 3- ¹³ C-Malate in Primary Cultures of Mouse Astrocytes. <i>Developmental Neuroscience</i> , 2000, 22, 456-462.	1.0	19
114	Relationship between retroviral vector membrane and vector stability. <i>Journal of General Virology</i> , 2006, 87, 1349-1356.	1.3	19
115	Proteomic analyses of <i>Ehrlichia ruminantium</i> highlight differential expression of MAP1-family proteins. <i>Veterinary Microbiology</i> , 2012, 156, 305-314.	0.8	19
116	Rational development of two flowthrough purification strategies for adenovirus type 5 and retro virus-like particles. <i>Journal of Chromatography A</i> , 2015, 1426, 91-101.	1.8	19
117	Retrovirus producer cell line metabolism: implications on viral productivity. <i>Applied Microbiology and Biotechnology</i> , 2006, 72, 1125-1135.	1.7	18
118	The role of glia in neuronal recovery following anoxia: In vitro evidence of neuronal adaptation. <i>Neurochemistry International</i> , 2011, 58, 665-675.	1.9	18
119	On the Effect of Thermodynamic Equilibrium on the Assembly Efficiency of Complex Multi-Layered Virus-Like Particles (VLP): the Case of Rotavirus VLP. <i>PLoS Computational Biology</i> , 2012, 8, e1002367.	1.5	18
120	Adaptive laboratory evolution of stable insect cell lines for improved HIV-Gag VLPs production. <i>Journal of Biotechnology</i> , 2020, 307, 139-147.	1.9	18
121	Serum-free and serum-containing media for growth of suspended BHK aggregates in stirred vessels. <i>Enzyme and Microbial Technology</i> , 1995, 17, 437-444.	1.6	17
122	Influence of power input and aeration method on mass transfer in a laboratory animal cell culture vessel. <i>Journal of Chemical Technology and Biotechnology</i> , 1995, 62, 118-131.	1.6	17
123	On-Line Detection of Microbial Contaminations in Animal Cell Reactor Cultures Using an Electronic Nose Device. <i>Cytotechnology</i> , 2005, 48, 41-58.	0.7	17
124	Intracellular dynamics in rotavirus-like particles production: Evaluation of multigene and monocistronic infection strategies. <i>Process Biochemistry</i> , 2006, 41, 2188-2199.	1.8	17
125	Stochastic simulation of protein expression in the baculovirus/insect cells system. <i>Computers and Chemical Engineering</i> , 2008, 32, 68-77.	2.0	17
126	Cell functional enviromics: Unravelling the function of environmental factors. <i>BMC Systems Biology</i> , 2011, 5, 92.	3.0	17

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127	Bioorthogonal Strategy for Bioprocessing of Specific-Site-Functionalized Enveloped Influenza-Virus-Like Particles. <i>Bioconjugate Chemistry</i> , 2016, 27, 2386-2399.	1.8	17
128	Metabolic shifts do not influence the glycosylation patterns of a recombinant fusion protein expressed in BHK cells. , 2000, 69, 129-139.		16
129	Effect of ethanol on the metabolism of primary astrocytes studied by ¹³ C- and ³¹ P-NMR spectroscopy. <i>Journal of Neuroscience Research</i> , 2001, 66, 803-811.	1.3	16
130	Purification of recombinant rotavirus VP7 glycoprotein for the study of in vitro rotavirus-like particles assembly. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 874, 89-94.	1.2	16
131	Modeling protein binding and elution over a chromatographic surface probed by surface plasmon resonance. <i>Journal of Chromatography A</i> , 2010, 1217, 2032-2041.	1.8	16
132	Quality control and analytical methods for baculovirus-based products. <i>Journal of Invertebrate Pathology</i> , 2011, 107, S94-S105.	1.5	16
133	The importance of 293 cell cycle phase on adenovirus vector production. <i>Enzyme and Microbial Technology</i> , 2006, 39, 1328-1332.	1.6	15
134	Stirred vessel cultures of rat brain cells aggregates: Characterization of major metabolic pathways and cell population dynamics. <i>Journal of Neuroscience Research</i> , 2007, 85, 3386-3397.	1.3	15
135	Impact of Retroviral Vector Components Stoichiometry on Packaging Cell Lines: Effects on Productivity and Vector Quality. <i>Human Gene Therapy</i> , 2008, 19, 199-210.	1.4	15
136	Testing a new formulation for Peste des Petits Ruminants vaccine in Ethiopia. <i>Vaccine</i> , 2014, 32, 2878-2881.	1.7	15
137	Metabolic flux profiling of MDCK cells during growth and canine adenovirus vector production. <i>Scientific Reports</i> , 2016, 6, 23529.	1.6	15
138	RMCE-based insect cell platform to produce membrane proteins captured on HIV-1 Gag virus-like particles. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 655-666.	1.7	15
139	A detection and quantification label-free tool to speed up downstream processing of model mucins. <i>PLoS ONE</i> , 2018, 13, e0190974.	1.1	15
140	Improving the downstream processing of vaccine and gene therapy vectors with continuous chromatography. <i>Pharmaceutical Bioprocessing</i> , 2015, 3, 489-505.	0.8	14
141	Exploring analytical proteomics platforms toward the definition of human cardiac stem cells receptome. <i>Proteomics</i> , 2015, 15, 1332-1337.	1.3	14
142	High-throughput analysis of animal cell cultures using two-dimensional fluorometry. <i>Journal of Biotechnology</i> , 2011, 151, 255-260.	1.9	13
143	Improving Influenza HA-Vlps Production in Insect High Five Cells via Adaptive Laboratory Evolution. <i>Vaccines</i> , 2020, 8, 589.	2.1	13
144	Production and quality analysis of Pr55gag particles produced in baculovirus-infected insect cells. <i>Journal of Chemical Technology and Biotechnology</i> , 1998, 72, 149-158.	1.6	12

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145	Metabolic changes during cell growth inhibition by the IRF-1 system. <i>Enzyme and Microbial Technology</i> , 2002, 30, 95-109.	1.6	12
146	Removal of envelope proteinâ€free retroviral vectors by anionâ€exchange chromatography to improve product quality. <i>Journal of Separation Science</i> , 2008, 31, 3509-3518.	1.3	12
147	Modeling electrostatic interactions of baculovirus vectors for ion-exchange process development. <i>Journal of Chromatography A</i> , 2010, 1217, 3754-3764.	1.8	12
148	A cell sorting protocol for selecting high-producing sub-populations of Sf9 and High Fiveâ„¢ cells. <i>Journal of Biotechnology</i> , 2013, 168, 436-439.	1.9	12
149	Improving washing strategies of human mesenchymal stem cells using negative mode expanded bed chromatography. <i>Journal of Chromatography A</i> , 2016, 1429, 292-303.	1.8	12
150	Strategies to modulate BHK cell proliferation by the regulation of IRF-1 expression. <i>Journal of Biotechnology</i> , 2001, 92, 47-59.	1.9	10
151	Virus Production for Clinical Gene Therapy. <i>Methods in Molecular Biology</i> , 2009, 542, 447-470.	0.4	10
152	Analysis of adsorption of a baculovirus bioreaction bulk on an ion-exchange surface by surface plasmon resonance. <i>Journal of Biotechnology</i> , 2010, 148, 171-181.	1.9	9
153	Downstream processing for influenza vaccines and candidates: An update. <i>Biotechnology and Bioengineering</i> , 2021, 118, 2845-2869.	1.7	9
154	Continuous Affinity Purification of Adeno-Associated Virus Using Periodic Counter-Current Chromatography. <i>Pharmaceutics</i> , 2022, 14, 1346.	2.0	9
155	Insect Cell Culture Medium Supplementation with Fetal Bovine Serum and Bovine Serum Albumin: Effects on Baculovirus Adsorption and Infection Kinetics. <i>Biotechnology Progress</i> , 2002, 18, 855-861.	1.3	8
156	Catalase effect on cell death for the improvement of recombinant protein production in baculovirus-insect cell system. <i>Bioprocess and Biosystems Engineering</i> , 2006, 29, 409-414.	1.7	8
157	Downâ€regulation of CD81 tetraspanin in human cells producing retroviralâ€based particles: Tailoring vector composition. <i>Biotechnology and Bioengineering</i> , 2011, 108, 2623-2633.	1.7	8
158	Baculovirus affinity removal in viral-based bioprocesses. <i>Separation and Purification Technology</i> , 2020, 241, 116693.	3.9	8
159	Oncolytic virus purification with periodic counterâ€current chromatography. <i>Biotechnology and Bioengineering</i> , 2021, 118, 3522-3532.	1.7	8
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