Andrew J Racher

List of Publications by Year
in descending order

36 papers	1,839 citations	331670 21 h-index	377865 34 g-index
39 all docs	39 docs citations	39 times ranked	1374 citing authors

#	Article	IF	Citations
1	A proline metabolism selection system and its application to the engineering of lipid biosynthesis in Chinese hamster ovary cells. Metabolic Engineering Communications, 2021, 13, e00179.	3.6	8
2	Engineering of Chinese hamster ovary cell lipid metabolism results in an expanded ER and enhanced recombinant biotherapeutic protein production. Metabolic Engineering, 2020, 57, 203-216.	7.0	29
3	Data for engineering lipid metabolism of Chinese hamster ovary (CHO) cells for enhanced recombinant protein production. Data in Brief, 2020, 29, 105217.	1.0	4
4	Tracking the physical stability of fluorescent-labeled mAbs under physiologic in vitro conditions in human serum and PBS. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 152, 193-201.	4.3	11
5	Intact-Cell MALDI-ToF Mass Spectrometry for the Authentication of Drug-Adapted Cancer Cell Lines. Cells, 2019, 8, 1194.	4.1	3
6	Improving the accuracy of flux balance analysis through the implementation of carbon availability constraints for intracellular reactions. Biotechnology and Bioengineering, 2019, 116, 2339-2352.	3.3	26
7	Implementation of Plate Imaging for Demonstration of Monoclonality in Biologics Manufacturing Development. PDA Journal of Pharmaceutical Science and Technology, 2018, 72, 438-450.	0.5	7
8	Comparison of spectroscopy technologies for improved monitoring of cell culture processes in miniature bioreactors. Biotechnology Progress, 2017, 33, 337-346.	2.6	36
9	Extraction of indirectly captured information for use in a comparison of offline pH measurement technologies. Journal of Biotechnology, 2017, 251, 160-165.	3.8	2
10	Methionine sulfoximine supplementation enhances productivity in GSâ€“CHOK1SV cell lines through glutathione biosynthesis. Biotechnology Progress, 2017, 33, 17-25.	2.6	16
11	Diversity in host clone performance within a Chinese hamster ovary cell line. Biotechnology Progress, 2015, 31, 1187-1200.	2.6	33
12	Building a Cell Culture Process with Stable Foundations: Searching for Certainty in an Uncertain World. Cell Engineering, 2015, , 373-406.	0.4	5
13	Rapid high-throughput characterisation, classification and selection of recombinant mammalian cell line phenotypes using intact cell MALDI-ToF mass spectrometry fingerprinting and PLS-DA modelling. Journal of Biotechnology, 2014, 184, 84-93.	3.8	46
14	Functional heterogeneity and heritability in CHO cell populations. Biotechnology and Bioengineering, 2013, 110, 260-274.	3.3	88
15	The use of glutamine synthetase as a selection marker: recent advances in Chinese hamster ovary cell line generation processes. Pharmaceutical Bioprocessing, 2013, 1, 487-502.	0.8	31
16	Does earlier use of productivity enhancers during cell line selection lead to the identification of more productive cell lines?. BMC Proceedings, 2011, 5, P9.	1.6	0
17	Impact of gene vector design on the control of recombinant monoclonal antibody production by chinese hamster ovary cells. Biotechnology Progress, 2011, 27, 1689-1699.	2.6	31
18	An empirical modeling platform to evaluate the relative control discrete CHO cell synthetic processes exert over recombinant monoclonal antibody production process titer. Biotechnology and Bioengineering, 2011, 108, 2193-2204.	3.3	19

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19	Report and recommendation of a workshop on education and training for measurement, monitoring, modelling and control (M³C) in biochemical engineering. Biotechnology Journal, 2010, 5, 359-367.	3.5	4
20	Strategies for selecting Recombinant CHO cell lines for cGMP manufacturing: Realizing the potential in bioreactors. Biotechnology Progress, 2010, 26, 1446-1454.	2.6	43
21	Strategies for selecting recombinant CHO cell lines for cGMP manufacturing: Improving the efficiency of cell line generation. Biotechnology Progress, 2010, 26, 1455-1464.	2.6	59
22	Cell lineâ€specific control of recombinant monoclonal antibody production by CHO cells. Biotechnology and Bioengineering, 2010, 106, 938-951.	3.3	90
23	Rapid whole monoclonal antibody analysis by mass spectrometry: An Ultra scaleâ€down study of the effect of harvesting by centrifugation on the postâ€translational modification profile. Biotechnology and Bioengineering, 2010, 107, 85-95.	3.3	55
24	Metabolic Rates, Growth Phase, and mRNA Levels Influence Cell-Specific Antibody Production Levels from In Vitro-Cultured Mammalian Cells at Sub-Physiological Temperatures. Molecular Biotechnology, 2008, 39, 69-77.	2.4	48
25	On the Optimal Ratio of Heavy to Light Chain Genes for Efficient Recombinant Antibody Production by CHO Cells. Biotechnology Progress, 2008, 21, 122-133.	2.6	183
26	Dynamic analysis of GS-NS0 cells producing a recombinant monoclonal antibody during fed-batch culture. Biotechnology and Bioengineering, 2007, 97, 410-424.	3.3	45
27	Control of Culture Environment for Improved Polyethylenimine-Mediated Transient Production of Recombinant Monoclonal Antibodies by CHO Cells. Biotechnology Progress, 2006, 22, 753-762.	2.6	93
28	On the statistical analysis of the GS-NS0 cell proteome: Imputation, clustering and variability testing. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2006, 1764, 1179-1187.	2.3	10
29	Antibody production. Advanced Drug Delivery Reviews, 2006, 58, 671-685.	13.7	462
30	Functional proteomic analysis of GS-NS0 murine myeloma cell lines with varying recombinant monoclonal antibody production rate. Biotechnology and Bioengineering, 2006, 94, 830-841.	3.3	76
31	Proteomic analysis of enriched microsomal fractions from GS-NS0 murine myeloma cells with varying secreted recombinant monoclonal antibody productivities. Proteomics, 2005, 5, 4689-4704.	2.2	48
32	Comparative proteomic analysis of GS-NS0 murine myeloma cell lines with varying recombinant monoclonal antibody production rate. Biotechnology and Bioengineering, 2004, 88, 474-488.	3.3	120
33	Evaluation of individual protein errors in silver-stained two-dimensional gels. Biochemical and Biophysical Research Communications, 2003, 306, 1050-1055.	2.1	28
34	Effect of viscosity upon hydrodynamically controlled natural aggregates of animal cells grown in stirred vessels. Biotechnology Progress, 1995, 11, 575-583.	2.6	48
35	Culture of 293 cells in different culture systems: Cell growth and recombinant adenovirus production. Biotechnology Letters, 1995, 9, 169-174.	0.5	14
36	Use of the Glutamine Synthetase (GS) Expression System for the Rapid Development of Highly Productive Mammalian Cell Processes. , 0, , 809-832.		10