Alan J Dickson

List of Publications by Year
in descending order

55 papers	2,090 citations	279487 23 h-index	243296 44 g-index
57 all docs	57 docs citations	57 times ranked	1947 citing authors

#	Article	IF	Citations
1	The secretory pathway â€“ the key for unlocking the potential of Chinese hamster ovary cell factories for manufacturing therapeutic proteins. Critical Reviews in Biotechnology, 2023, 43, 628-645.	5.1	5
2	Combined gene and environmental engineering offers a synergetic strategy to enhance râ€protein production in Chinese hamster ovary cells. Biotechnology and Bioengineering, 2022, 119, 550-565.	1.7	13
3	Reprogramming of Chinese hamster ovary cells towards enhanced protein secretion. Metabolic Engineering, 2022, 69, 249-261.	3.6	4
4	Temperature Downâ€Shift Modifies Expression of UPRâ€/ERADâ€Related Genes and Enhances Production of a Chimeric Fusion Protein in CHO Cells. Biotechnology Journal, 2021, 16, e2000081.	1.8	25
5	Metabolic profiling of Chinese hamster ovary cell cultures at different working volumes and agitation speeds using spin tube reactors. Biotechnology Progress, 2021, 37, e3099.	1.3	10
6	Predictive approaches to guide the expression of recombinant vaccine targets in Escherichia coli: a case study presentation utilising Absynth Biologics Ltd. proprietary Clostridium difficile vaccine antigens. Applied Microbiology and Biotechnology, 2021, 105, 5657-5674.	1.7	2
7	A comparative analysis of recombinant Fab and fullâ€length antibody production in Chinese hamster ovary cells. Biotechnology and Bioengineering, 2021, 118, 4815-4828.	1.7	6
8	Overexpression of transcription factor BLIMP1/prdm1 leads to growth inhibition and enhanced secretory capacity in Chinese hamster ovary cells. Metabolic Engineering, 2021, 67, 237-249.	3.6	13
9	Molecular characterization of HEK293 cells as emerging versatile cell factories. Current Opinion in Biotechnology, 2021, 71, 18-24.	3.3	22
10	An Omicâ€™s Data-Driven Approach Towards Engineering Mammalian Cell Factories and Bioprocesses for Biopharmaceutical Production. Cell Engineering, 2021, , 93-128.	0.4	2
11	Actinomycin D downregulates Sox2 and improves survival in preclinical models of recurrent glioblastoma. Neuro-Oncology, 2020, 22, 1289-1301.	0.6	27
12	Systematic Evaluation of CRISPRa and CRISPRi Modalities Enables Development of a Multiplexed, Orthogonal Gene Activation and Repression System. ACS Synthetic Biology, 2019, 8, 1998-2006.	1.9	41
13	Surface patches on recombinant erythropoietin predict protein solubility: engineering proteins to minimise aggregation. BMC Biotechnology, 2019, 19, 26.	1.7	8
14	Metabolic flux analysis during galactose and lactate co-consumption reveals enhanced energy metabolism in continuous CHO cell cultures. Chemical Engineering Science, 2019, 205, 201-211.	1.9	8
15	Multiplexed Digital mRNA Expression Analysis Profiles Systemâ€Wide Changes in mRNA Abundance and Responsiveness of UPRâ€Specific Gene Expression Changes During Batch Culture of Recombinant Chinese Hamster Ovary Cells. Biotechnology Journal, 2018, 13, e1700429.	1.8	11
16	Process and metabolic engineering perspectives of lactate production in mammalian cell cultures. Current Opinion in Chemical Engineering, 2018, 22, 184-190.	3.8	18
17	A protein chimera strategy supports production of a model â€œdifficultâ€toâ€expressâ€•recombinant target. FEBS Letters, 2018, 592, 2499-2511.	1.3	9
18	Improved CHO Cell Line Stability and Recombinant Protein Expression During Long-Term Culture. Methods in Molecular Biology, 2017, 1603, 119-141.	0.4	7

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19	Metabolite Profiling of Mammalian Cell Culture Processes to Evaluate Cellular Viability. Methods in Molecular Biology, 2017, 1601, 137-152.	0.4	6
20	Use of a protein engineering strategy to overcome limitations in the production of â€œDifficult to Expressâ€•recombinant proteins. Biotechnology and Bioengineering, 2017, 114, 2348-2359.	1.7	18
21	Ubiquitous Chromatin Opening Elements (UCOEs) effect on transgene position and expression stability in CHO cells following methotrexate (MTX) amplification. Biotechnology Journal, 2016, 11, 554-564.	1.8	14
22	Metabolite profiling of CHO cells: Molecular reflections of bioprocessing effectiveness. Biotechnology Journal, 2015, 10, 1434-1445.	1.8	42
23	Evaluating the interaction between <scp>UCOE</scp> and <scp>DHFR</scp>â€linked amplification and stability of recombinant protein expression. Biotechnology Progress, 2015, 31, 1014-1025.	1.3	19
24	Chemical manipulation of the mTORC1 pathway in industrially relevant CHOK1 cells enhances production of therapeutic proteins. Biotechnology Journal, 2015, 10, 1041-1050.	1.8	13
25	Assessment of UCOE on Recombinant EPO Production and Expression Stability in Amplified Chinese Hamster Ovary Cells. Molecular Biotechnology, 2015, 57, 846-858.	1.3	24
26	<scp>UV</scp> resonance Raman spectroscopy: a process analytical tool for host cell <scp>DNA</scp> and <scp>RNA</scp> dynamics in mammalian cell lines. Journal of Chemical Technology and Biotechnology, 2015, 90, 237-243.	1.6	16
27	Enhancement of production of protein biopharmaceuticals by mammalian cell cultures: the metabolomics perspective. Current Opinion in Biotechnology, 2014, 30, 73-79.	3.3	30
28	The endoplasmic reticulum and unfolded protein response in the control of mammalian recombinant protein production. Biotechnology Letters, 2014, 36, 1581-1593.	1.1	44
29	A CHO cell line engineered to express XBP1 and ERO1â€Lβ has increased levels of transient protein expression. Biotechnology Progress, 2013, 29, 697-706.	1.3	79
30	Determination of Chinese hamster ovary cell line stability and recombinant antibody expression during longâ€term culture. Biotechnology and Bioengineering, 2012, 109, 2093-2103.	1.7	107
31	Metabolite extraction from suspension-cultured mammalian cells for global metabolite profiling. Nature Protocols, 2011, 6, 1241-1249.	5.5	186
32	Metabolite profiling of recombinant CHO cells: Designing tailored feeding regimes that enhance recombinant antibody production. Biotechnology and Bioengineering, 2011, 108, 3025-3031.	1.7	110
33	Evaluation of extraction processes for intracellular metabolite profiling of mammalian cells: matching extraction approaches to cell type and metabolite targets. Metabolomics, 2010, 6, 427-438.	1.4	88
34	Strategies for selecting Recombinant CHO cell lines for cGMP manufacturing: Realizing the potential in bioreactors. Biotechnology Progress, 2010, 26, 1446-1454.	1.3	43
35	Strategies for selecting recombinant CHO cell lines for cGMP manufacturing: Improving the efficiency of cell line generation. Biotechnology Progress, 2010, 26, 1455-1464.	1.3	59
36	Effective Quenching Processes for Physiologically Valid Metabolite Profiling of Suspension Cultured Mammalian Cells. Analytical Chemistry, 2009, 81, 174-183.	3.2	132

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37	Molecular analysis of successful cell line selection in transfected GS-NS0 myeloma cells. Biotechnology and Bioengineering, 2007, 96, 337-348.	1.7	39
38	Mammalian cell factories for efficient and stable protein expression. Current Opinion in Biotechnology, 2006, 17, 381-386.	3.3	83
39	Engineering responsiveness to cell culture stresses: Growth arrest and DNA damage gene 153 (GADD153) and the unfolded protein response (UPR) in NS0 myeloma cells. Biotechnology and Bioengineering, 2006, 94, 514-521.	1.7	11
40	Molecular definition of predictive indicators of stable protein expression in recombinant NS0 myeloma cells. Biotechnology and Bioengineering, 2004, 85, 115-121.	1.7	80
41	Endoplasmic reticulum signaling as a determinant of recombinant protein expression. Biotechnology and Bioengineering, 2003, 81, 56-65.	1.7	93
42	Stability of protein production from recombinant mammalian cells. Biotechnology and Bioengineering, 2003, 81, 631-639.	1.7	195
43	Analysis of the role of GADD153 in the control of apoptosis in NS0 myeloma cells. Biotechnology and Bioengineering, 2002, 80, 719-730.	1.7	24
44	Characterization of the stability of recombinant protein production in the GS-NS0 expression system. Biotechnology and Bioengineering, 2001, 73, 261-270.	1.7	82
45	Expression of the transcription factor GADD153 is an indicator of apoptosis for recombinant chinese hamster ovary (CHO) cells. Biotechnology and Bioengineering, 2001, 75, 621-629.	1.7	25
46	Dichloroacetate increases cell and antibody yields in batch cultures of a hybridoma cell line. , 2000, 49, 377-382.		6
47	Advances in animal cell recombinant protein production: GS-NS0 expression system. Cytotechnology, 2000, 32, 109-123.	0.7	107
48	NSO myeloma cell death: Influence ofbcl-2 overexpression. , 1996, 51, 298-304.		49
49	Dichloroacetate increases cell and antibody yields in batch cultures of a hybridoma cell line. , 1996, 49, 377.		1
50	Wortmannin influences insulin regulation of gene 33 expression in rat hepatoma cells. Biochemical Society Transactions, 1995, 23, 545S-545S.	1.6	1
51	Dichloroacetate increases cell and product yields in hybridoma batch cultures. Biochemical Society Transactions, 1995, 23, 585S-585S.	1.6	0
52	Degradation of immunoreactive tyrosine aminotransferase in cultures of hepatic parenchymal cells: control by insulin. Biochemical Society Transactions, 1986, 14, 1057-1058.	1.6	1
53	Homogentisate oxidation in isolated liver cells. Biochemical Society Transactions, 1986, 14, 1060-1061.	1.6	1
54	Insulin antagonizes the glucagon-mediated stimulation of phenylalanine hydroxylase activity in isolated liver cells. Biochemical Society Transactions, 1986, 14, 310-311.	1.6	3

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55	Protein synthesis by isolated rat hepatocytes: effects of diamide and hydroperoxides. Biochemical Society Transactions, 1984, 12, 1048-1049.	1.6	0