Gyun Min Lee

List of Publications by Year
in descending order

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153 papers	5,994 citations	71102 41 h-index	95266 68 g-index
160 all docs	160 docs citations	160 times ranked	2960 citing authors

#	Article	IF	Citations
1	CHO cells in biotechnology for production of recombinant proteins: current state and further potential. Applied Microbiology and Biotechnology, 2012, 93, 917-930.	3.6	599
2	Effect of low culture temperature on specific productivity, transcription level, and heterogeneity of erythropoietin in Chinese hamster ovary cells. Biotechnology and Bioengineering, 2003, 82, 289-298.	3.3	225
3	Characterization of chimeric antibody producing CHO cells in the course of dihydrofolate reductase-mediated gene amplification and their stability in the absence of selective pressure. Biotechnology and Bioengineering, 1998, 58, 73-84.	3.3	192
4	Initial transcriptome and proteome analyses of low culture temperature-induced expression in CHO cells producing erythropoietin. Biotechnology and Bioengineering, 2006, 93, 361-371.	3.3	135
5	Clonal variability within dihydrofolate reductase-mediated gene amplified Chinese hamster ovary cells: Stability in the absence of selective pressure. Biotechnology and Bioengineering, 1998, 60, 679-688.	3.3	132
6	Effect of culture pH on erythropoietin production by Chinese hamster ovary cells grown in suspension at 32.5 and 37.0Â°C. Biotechnology and Bioengineering, 2005, 89, 345-356.	3.3	126
7	Down-regulation of lactate dehydrogenase-A by siRNAs for reduced lactic acid formation of Chinese hamster ovary cells producing thrombopoietin. Applied Microbiology and Biotechnology, 2007, 74, 152-159.	3.6	124
8	Overexpression ofbcl-2 inhibits sodium butyrate-induced apoptosis in Chinese hamster ovary cells resulting in enhanced humanized antibody production. Biotechnology and Bioengineering, 2000, 71, 184-193.	3.3	116
9	Oneâ€step generation of triple knockout CHO cell lines using CRISPR/Cas9 and fluorescent enrichment. Biotechnology Journal, 2015, 10, 1446-1456.	3.5	108
10	Response of recombinant Chinese hamster ovary cells to hyperosmotic pressure: effect of Bcl-2 overexpression. Journal of Biotechnology, 2002, 95, 237-248.	3.8	103
11	Nutrient deprivation induces autophagy as well as apoptosis in Chinese hamster ovary cell culture. Biotechnology and Bioengineering, 2008, 99, 678-685.	3.3	101
12	Assessment of cell engineering strategies for improved therapeutic protein production in CHO cells. Biotechnology Journal, 2008, 3, 624-630.	3.5	86
13	Inhibition of sodium butyrate-induced apoptosis in recombinant Chinese hamster ovary cells by constitutively expressing antisense RNA of caspase-3. Biotechnology and Bioengineering, 2002, 78, 217-228.	3.3	85
14	Production of monoclonal antibody using free-suspended and immobilized hybridoma cells: Effect of serum. Biotechnology and Bioengineering, 1991, 38, 821-830.	3.3	82
15	Effect of sodium butyrate on the production, heterogeneity and biological activity of human thrombopoietin by recombinant Chinese hamster ovary cells. Journal of Biotechnology, 2004, 112, 323-335.	3.8	82
16	Immobilization can improve the stability of hybridoma antibody productivity in serum-free media. Biotechnology and Bioengineering, 1990, 36, 1049-1055.	3.3	79
17	Enhancing Effect of Low Culture Temperature on Specific Antibody Productivity of Recombinant Chinese Hamster Ovary Cells: Clonal Variation. Biotechnology Progress, 2004, 20, 1683-1688.	2.6	79
18	Genome-scale reconstructions of the mammalian secretory pathway predict metabolic costs and limitations of protein secretion. Nature Communications, 2020, 11, 68.	12.8	74

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19	Effect of doxycycline-regulated calnexin and calreticulin expression on specific thrombopoietin productivity of recombinant chinese hamster ovary cells. Biotechnology and Bioengineering, 2004, 85, 539-546.	3.3	72
20	Proteome Analysis of Antibody-Expressing CHO Cells in Response to Hyperosmotic Pressure. Biotechnology Progress, 2003, 19, 1734-1741.	2.6	68
21	Influence of co-down-regulation of caspase-3 and caspase-7 by siRNAs on sodium butyrate-induced apoptotic cell death of Chinese hamster ovary cells producing thrombopoietin. Metabolic Engineering, 2007, 9, 452-464.	7.0	68
22	Osmoprotective effect of glycine betaine on foreign protein production in hyperosmotic recombinant Chinese hamster ovary cell cultures differs among cell lines. Biotechnology and Bioengineering, 2000, 70, 167-175.	3.3	67
23	Effect of doxycycline-regulated protein disulfide isomerase expression on the specific productivity of recombinant CHO cells: Thrombopoietin and antibody. Biotechnology and Bioengineering, 2007, 98, 611-615.	3.3	67
24	Valeric acid induces cell cycle arrest at G1 phase in CHO cell cultures and improves recombinant antibody productivity. Biotechnology Journal, 2016, 11, 487-496.	3.5	67
25	Hyperosmotic stress induces autophagy and apoptosis in recombinant Chinese hamster ovary cell culture. Biotechnology and Bioengineering, 2010, 105, 1187-1192.	3.3	64
26	Multiplex secretome engineering enhances recombinant protein production and purity. Nature Communications, 2020, 11, 1908.	12.8	63
27	Adaptation of Chinese hamster ovary cells to low culture temperature: Cell growth and recombinant protein production. Journal of Biotechnology, 2006, 122, 463-472.	3.8	61
28	Development of serum-free medium supplemented with hydrolysates for the production of therapeutic antibodies in CHO cell cultures using design of experiments. Applied Microbiology and Biotechnology, 2009, 83, 639-648.	3.6	60
29	Functional expression of human pyruvate carboxylase for reduced lactic acid formation of Chinese hamster ovary cells (DG44). Applied Microbiology and Biotechnology, 2007, 76, 659-665.	3.6	58
30	Development of recombinant Chinese hamster ovary cell lines for therapeutic protein production. Current Opinion in Chemical Engineering, 2013, 2, 391-397.	7.8	58
31	Accelerated homologyâ€directed targeted integration of transgenes in Chinese hamster ovary cells via CRISPR/Cas9 and fluorescent enrichment. Biotechnology and Bioengineering, 2016, 113, 2518-2523.	3.3	58
32	Improving the secretory capacity of Chinese hamster ovary cells by ectopic expression of effector genes: Lessons learned and future directions. Biotechnology Advances, 2017, 35, 64-76.	11.7	58
33	Comprehensive characterization of glutamine synthetase-mediated selection for the establishment of recombinant CHO cells producing monoclonal antibodies. Scientific Reports, 2018, 8, 5361.	3.3	58
34	Proteomic Analysis of Host Cell Protein Dynamics in the Culture Supernatants of Antibody-Producing CHO Cells. Scientific Reports, 2017, 7, 44246.	3.3	52
35	Key Determinants in the Occurrence of Clonal Variation in Humanized Antibody Expression of CHO Cells during Dihydrofolate Reductase Mediated Gene Amplification. Biotechnology Progress, 2001, 17, 69-75.	2.6	51
36	Effect of Bclâ€x‹sub›L‹/sub› overexpression on apoptosis and autophagy in recombinant Chinese hamster ovary cells under nutrientâ€deprived condition. Biotechnology and Bioengineering, 2009, 103, 757-766.	3.3	51

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37	Minimizing Clonal Variation during Mammalian Cell Line Engineering for Improved Systems Biology Data Generation. ACS Synthetic Biology, 2018, 7, 2148-2159.	3.8	51
38	Limitations to the Development of Humanized Antibody Producing Chinese Hamster Ovary Cells Using Glutamine Synthetase-Mediated Gene Amplification. Biotechnology Progress, 2006, 22, 770-780.	2.6	50
39	Ribosome profiling-guided depletion of an mRNA increases cell growth rate and protein secretion. Scientific Reports, 2017, 7, 40388.	3.3	48
40	Enhanced Human Thrombopoietin Production by Sodium Butyrate Addition to Serum-Free Suspension Culture of Bcl-2-Overexpressing CHO Cells. Biotechnology Progress, 2008, 21, 50-57.	2.6	46
41	Hyperosmotic pressure enhances immunoglobulin transcription rates and secretion rates of KR12H-2 transfectoma. Biotechnology and Bioengineering, 2000, 68, 260-268.	3.3	45
42	Monitoring of autophagy in Chinese hamster ovary cells using flow cytometry. Methods, 2012, 56, 375-382.	3.8	45
43	Effect of Akt overexpression on programmed cell death in antibody-producing Chinese hamster ovary cells. Journal of Biotechnology, 2009, 139, 89-94.	3.8	43
44	Antiâ€cell death engineering of CHO cells: Coâ€overexpression of Bclâ€2 for apoptosis inhibition, Beclinâ€1 for autophagy induction. Biotechnology and Bioengineering, 2013, 110, 2195-2207.	3.3	43
45	Glyco-engineered CHO cell lines producing alpha-1-antitrypsin and C1 esterase inhibitor with fully humanized N-glycosylation profiles. Metabolic Engineering, 2019, 52, 143-152.	7.0	42
46	Application of population balance model to explain loss of hybridoma antibody productivity. Biotechnology Progress, 1991, 7, 72-75.	2.6	41
47	Mitigating Clonal Variation in Recombinant Mammalian Cell Lines. Trends in Biotechnology, 2019, 37, 931-942.	9.3	41
48	Effect of mechanical agitation on hybridoma cell growth. Biotechnology Letters, 1988, 10, 625-628.	2.2	40
49	Effect of glutamine substitution by TCA cycle intermediates on the production and sialylation of Fc-fusion protein in Chinese hamster ovary cell culture. Journal of Biotechnology, 2014, 180, 23-29.	3.8	39
50	Revealing Key Determinants of Clonal Variation in Transgene Expression in Recombinant CHO Cells Using Targeted Genome Editing. ACS Synthetic Biology, 2018, 7, 2867-2878.	3.8	39
51	Reduced apoptosis in Chinese hamster ovary cells via optimized CRISPR interference. Biotechnology and Bioengineering, 2019, 116, 1813-1819.	3.3	39
52	Multicopy Targeted Integration for Accelerated Development of High-Producing Chinese Hamster Ovary Cells. ACS Synthetic Biology, 2020, 9, 2546-2561.	3.8	39
53	Effect of Doxycycline-Regulated ERp57 Expression on Specific Thrombopoietin Productivity of Recombinant CHO Cells. Biotechnology Progress, 2003, 19, 179-184.	2.6	38
54	Effect of inducible coâ€overexpression of protein disulfide isomerase and endoplasmic reticulum oxidoreductase on the specific antibody productivity of recombinant Chinese hamster ovary cells. Biotechnology and Bioengineering, 2010, 107, 337-346.	3.3	36

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55	Selection strategies for the establishment of recombinant Chinese hamster ovary cell line with dihydrofolate reductase-mediated gene amplification. Applied Microbiology and Biotechnology, 2005, 69, 162-169.	3.6	35
56	Combinatorial engineering of ldh-a and bcl-2 for reducing lactate production and improving cell growth in dihydrofolate reductase-deficient Chinese hamster ovary cells. Applied Microbiology and Biotechnology, 2011, 92, 779-790.	3.6	35
57	Rapamycin treatment inhibits CHO cell death in a serumâ€free suspension culture by autophagy induction. Biotechnology and Bioengineering, 2012, 109, 3093-3102.	3.3	35
58	Effects of Cloned Gene Dosage on the Response of Recombinant CHO Cells to Hyperosmotic Pressure in Regard to Cell Growth and Antibody Production. Biotechnology Progress, 2001, 17, 993-999.	2.6	34
59	Effect of sodium butyrate on autophagy and apoptosis in Chinese hamster ovary cells. Biotechnology Progress, 2012, 28, 349-357.	2.6	34
60	Autophagy and its implication in Chinese hamster ovary cell culture. Biotechnology Letters, 2013, 35, 1753-1763.	2.2	34
61	Limitations to the comparative proteomic analysis of thrombopoietin producing Chinese hamster ovary cells treated with sodium butyrate. Journal of Biotechnology, 2008, 133, 461-468.	3.8	33
62	Enhanced interferonâ€Î² production by CHO cells through elevated osmolality and reduced culture temperature. Biotechnology Progress, 2009, 25, 1440-1447.	2.6	33
63	Autophagy and apoptosis of recombinant Chinese hamster ovary cells during fedâ€batch culture: Effect of nutrient supplementation. Biotechnology and Bioengineering, 2011, 108, 2182-2192.	3.3	33
64	Effect of sodium butyrate on the assembly, charge variants, and galactosylation of antibody produced in recombinant Chinese hamster ovary cells. Applied Microbiology and Biotechnology, 2014, 98, 5417-5425.	3.6	33
65	Effect of simultaneous application of stressful culture conditions on specific productivity and heterogeneity of erythropoietin in Chinese hamster ovary cells. Biotechnology Progress, 2004, 20, 1293-1296.	2.6	32
66	Systematic Evaluation of Site-Specific Recombinant Gene Expression for Programmable Mammalian Cell Engineering. ACS Synthetic Biology, 2019, 8, 758-774.	3.8	32
67	Development of apoptosis-resistant dihydrofolate reductase-deficient Chinese hamster ovary cell line. Biotechnology and Bioengineering, 2003, 82, 872-876.	3.3	31
68	Proteomic understanding of intracellular responses of recombinant Chinese hamster ovary cells cultivated in serum-free medium supplemented with hydrolysates. Applied Microbiology and Biotechnology, 2011, 89, 1917-1928.	3.6	29
69	Biphasic culture strategy for enhancing volumetric erythropoietin productivity of Chinese hamster ovary cells. Enzyme and Microbial Technology, 2006, 39, 362-365.	3.2	28
70	Understanding of altered Nâ€glycosylationâ€related gene expression in recombinant Chinese hamster ovary cells subjected to elevated ammonium concentration by digital mRNA counting. Biotechnology and Bioengineering, 2015, 112, 1583-1593.	3.3	27
71	Baicalein Reduces Oxidative Stress in CHO Cell Cultures and Improves Recombinant Antibody Productivity. Biotechnology Journal, 2018, 13, e1700425.	3.5	27
72	Awakening dormant glycosyltransferases in CHO cells with CRISPRa. Biotechnology and Bioengineering, 2020, 117, 593-598.	3.3	27

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73	Effect of lithium chloride on the production and sialylation of Fc-fusion protein in Chinese hamster ovary cell culture. Applied Microbiology and Biotechnology, 2014, 98, 9239-9248.	3.6	26
74	The molecular weight and concentration of dextran sulfate affect cell growth and antibody production in CHO cell cultures. Biotechnology Progress, 2016, 32, 1113-1122.	2.6	26
75	A DIGE approach for the assessment of differential expression of the CHO proteome under sodium butyrate addition: Effect of Bclâ€x_L overexpression. Biotechnology and Bioengineering, 2010, 105, 358-367.	3.3	25
76	Understanding of decreased sialylation of Fcâ€fusion protein in hyperosmotic recombinant Chinese hamster ovary cell culture: Nâ€glycosylation gene expression and Nâ€linked glycan antennary profile. Biotechnology and Bioengineering, 2017, 114, 1721-1732.	3.3	24
77	Reduction of ammonia and lactate through the coupling of glutamine synthetase selection and downregulation of lactate dehydrogenase-A in CHO cells. Applied Microbiology and Biotechnology, 2017, 101, 1035-1045.	3.6	24
78	Current state and perspectives on erythropoietin production. Applied Microbiology and Biotechnology, 2012, 95, 1405-1416.	3.6	23
79	Versatile microscale screening platform for improving recombinant protein productivity in Chinese hamster ovary cells. Scientific Reports, 2015, 5, 18016.	3.3	23
80	Comprehensive Analysis of Genomic Safe Harbors as Target Sites for Stable Expression of the Heterologous Gene in HEK293 Cells. ACS Synthetic Biology, 2020, 9, 1263-1269.	3.8	23
81	Effect of XIAP overexpression on sodium butyrate-induced apoptosis in recombinant Chinese hamster ovary cells producing erythropoietin. Journal of Biotechnology, 2009, 144, 299-303.	3.8	21
82	Proteomic analysis of host cell protein dynamics in the supernatant of Fcâ€fusion proteinâ€producing CHO DG44 and DUKXâ€B11 cell lines in batch and fedâ€batch cultures. Biotechnology and Bioengineering, 2017, 114, 2267-2278.	3.3	21
83	Effects of culture temperature and pH on flag-tagged COMP angiopoietin-1 (FCA1) production from recombinant CHO cells: FCA1 aggregation. Applied Microbiology and Biotechnology, 2011, 91, 305-315.	3.6	20
84	Effect of culture pH on recombinant antibody production by a new human cell line, F2N78, grown in suspension at 33.0ÂÂ°C and 37.0ÂÂ°C. Applied Microbiology and Biotechnology, 2013, 97, 5283-5291.	3.6	20
85	Digital mRNA profiling of N-glycosylation gene expression in recombinant Chinese hamster ovary cells treated with sodium butyrate. Journal of Biotechnology, 2014, 171, 56-60.	3.8	20
86	Factors affecting the quality of therapeutic proteins in recombinant Chinese hamster ovary cell culture. Biotechnology Advances, 2022, 54, 107831.	11.7	20
87	Differential induction of autophagy in caspase-3/7 down-regulating and Bcl-2 overexpressing recombinant CHO cells subjected to sodium butyrate treatment. Journal of Biotechnology, 2012, 161, 34-41.	3.8	19
88	Bclâ€xL overexpression does not enhance specific erythropoietin productivity of recombinant CHO cells grown at 33Â°C and 37Â°C. Biotechnology Progress, 2009, 25, 252-256.	2.6	18
89	Use of NaCl prevents aggregation of recombinant COMPâ€“Angiopoietin-1 in Chinese hamster ovary cells. Journal of Biotechnology, 2009, 143, 145-150.	3.8	18
90	Observations consistent with autocrine stimulation of hybridoma cell growth and implications for large-scale antibody production. Biotechnology Letters, 1992, 14, 257-262.	2.2	17

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91	Down-regulation of cold-inducible RNA-binding protein does not improve hypothermic growth of Chinese hamster ovary cells producing erythropoietin. Metabolic Engineering, 2007, 9, 208-216.	7.0	17
92	Protein reference mapping of dihydrofolate reductaseâ€deficient CHO DG44 cell lines using 2â€dimensional electrophoresis. Proteomics, 2010, 10, 2292-2302.	2.2	17
93	Effect of glucose feeding on the glycosylation quality of antibody produced by a human cell line, F2N78, in fed-batch culture. Applied Microbiology and Biotechnology, 2014, 98, 3509-3515.	3.6	17
94	A metabolic CRISPR-Cas9 screen in Chinese hamster ovary cells identifies glutamine-sensitive genes. Metabolic Engineering, 2021, 66, 114-122.	7.0	17
95	Expression and purification of recombinant human angiopoietin-2 produced in Chinese hamster ovary cells. Protein Expression and Purification, 2005, 39, 175-183.	1.3	16
96	High-level Expression and Purification of a Designed Angiopoietin-1 Chimeric Protein, COMP-Ang1, Produced in Chinese Hamster Ovary Cells. Protein Journal, 2008, 27, 319-326.	1.6	16
97	Autophagy and apoptosis in Chinese hamster ovary cell culture. Autophagy, 2008, 4, 70-72.	9.1	16
98	Using Titer and Titer Normalized to Confluence Are Complementary Strategies for Obtaining Chinese Hamster Ovary Cell Lines with High Volumetric Productivity of Etanercept. Biotechnology Journal, 2018, 13, e1700216.	3.5	16
99	BiP Inducer X: An ER Stress Inhibitor for Enhancing Recombinant Antibody Production in CHO Cell Culture. Biotechnology Journal, 2019, 14, 1900130.	3.5	16
100	Improving recombinant bone morphogenetic protein-4 (BMP-4) production by autoregulatory feedback loop removal using BMP receptor-knockout CHO cell lines. Metabolic Engineering, 2019, 52, 57-67.	7.0	16
101	Knockout of sialidase and pro-apoptotic genes in Chinese hamster ovary cells enables the production of recombinant human erythropoietin in fed-batch cultures. Metabolic Engineering, 2020, 57, 182-192.	7.0	16
102	Anti-Apoptosis Engineering for Improved Protein Production from CHO Cells. Methods in Molecular Biology, 2017, 1603, 71-85.	0.9	15
103	Bcl-xL overexpression delays the onset of autophagy and apoptosis in hyperosmotic recombinant Chinese hamster ovary cell cultures. Journal of Biotechnology, 2011, 156, 52-55.	3.8	14
104	Differential inâ€gel electrophoresis (DIGE) analysis of CHO cells under hyperosmotic pressure: Osmoprotective effect of glycine betaine addition. Biotechnology and Bioengineering, 2012, 109, 1395-1403.	3.3	14
105	Overexpression of PACEsol improves BMP-7 processing in recombinant CHO cells. Journal of Biotechnology, 2013, 164, 336-339.	3.8	14
106	Effect of Bclâ€x_L overexpression on sialylation of Fcâ€fusion protein in recombinant <scp>C</scp>hinese hamster ovary cell cultures. Biotechnology Progress, 2015, 31, 1133-1136.	2.6	14
107	Chemical inhibition of autophagy: Examining its potential to increase the specific productivity of recombinant CHO cell lines. Biotechnology and Bioengineering, 2016, 113, 1953-1961.	3.3	14
108	Limitations to the development of recombinant human embryonic kidney 293E cells using glutamine synthetase-mediated gene amplification: Methionine sulfoximine resistance. Journal of Biotechnology, 2016, 231, 136-140.	3.8	14

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109	Improving the production of recombinant human bone morphogenetic proteinâ€4 in Chinese hamster ovary cell cultures by inhibition of undesirable endocytosis. Biotechnology and Bioengineering, 2018, 115, 2565-2575.	3.3	14
110	An optimized genome-wide, virus-free CRISPR screen for mammalian cells. Cell Reports Methods, 2021, 1, 100062.	2.9	14
111	Use of Flp-mediated cassette exchange in the development of a CHO cell line stably producing erythropoietin. Journal of Microbiology and Biotechnology, 2008, 18, 1342-51.	2.1	14
112	Glutamine synthetase gene knockoutâ€human embryonic kidney 293E cells for stable production of monoclonal antibodies. Biotechnology and Bioengineering, 2018, 115, 1367-1372.	3.3	13
113	Simple and Robust N -Glycan Analysis Based on Improved 2-Aminobenzoic Acid Labeling for Recombinant Therapeutic Glycoproteins. Journal of Pharmaceutical Sciences, 2018, 107, 1831-1841.	3.3	13
114	Analysis of Golgi pH in Chinese hamster ovary cells using ratiometric pHâ€sensitive fluorescent proteins. Biotechnology and Bioengineering, 2019, 116, 1006-1016.	3.3	13
115	Effect of Ca2+ and Mg2+ concentration in culture medium on the activation of recombinant factor IX produced in Chinese hamster ovary cells. Journal of Biotechnology, 2009, 142, 275-278.	3.8	12
116	Calnexin overexpression sensitizes recombinant CHO cells to apoptosis induced by sodium butyrate treatment. Cell Stress and Chaperones, 2009, 14, 49-60.	2.9	11
117	Enhancement of recombinant antibody production in HEK 293E cells by WPRE. Biotechnology and Bioprocess Engineering, 2009, 14, 633-638.	2.6	11
118	Estimation of autophagy pathway genes for autophagy induction: Overexpression of Atg9A does not induce autophagy in recombinant Chinese hamster ovary cells. Biochemical Engineering Journal, 2012, 68, 221-226.	3.6	11
119	Characterization and expression of proprotein convertases in CHO cells: Efficient proteolytic maturation of human bone morphogenetic proteinâ€7. Biotechnology and Bioengineering, 2015, 112, 560-568.	3.3	10
120	Comprehensive characterization of dihydrofolate reductaseâ€mediated gene amplification for the establishment of recombinant human embryonic kidney 293 cells producing monoclonal antibodies. Biotechnology Journal, 2021, 16, e2000351.	3.5	10
121	Selective endocytosis of recombinant human BMPs through cell surface heparan sulfate proteoglycans in CHO cells: BMP-2 and BMP-7. Scientific Reports, 2021, 11, 3378.	3.3	10
122	Streamlined Human Cell-Based Recombinase-Mediated Cassette Exchange Platform Enables Multigene Expression for the Production of Therapeutic Proteins. ACS Synthetic Biology, 2021, 10, 1715-1727.	3.8	10
123	Characterization of site-specific recombination mediated by Cre recombinase during the development of erythropoietin producing CHO cell lines. Biotechnology and Bioprocess Engineering, 2008, 13, 418-423.	2.6	9
124	Proteomic understanding of intracellular responses of recombinant chinese hamster ovary cells adapted to grow in serumâ€free suspension culture. Biotechnology Progress, 2011, 27, 1680-1688.	2.6	9
125	Heparan sulfate proteoglycan synthesis in CHO DG44 and HEK293 cells. Biotechnology and Bioprocess Engineering, 2016, 21, 439-445.	2.6	9
126	Alleviation of proteolytic degradation of recombinant human bone morphogenetic protein-4 by repeated batch culture of Chinese hamster ovary cells. Process Biochemistry, 2016, 51, 1078-1084.	3.7	9

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127	Investigation of relationship between EBNA-1 expression level and specific foreign protein productivity in transient gene expression of HEK293 cells. Process Biochemistry, 2017, 55, 182-186.	3.7	8
128	Untangling the mechanism of 3â€methyladenine in enhancing the specific productivity: Transcriptome analysis of recombinant Chinese hamster ovary cells treated with 3â€methyladenine. Biotechnology and Bioengineering, 2018, 115, 2243-2254.	3.3	8
129	Improving the secretory capacity of CHO producer cells: The effect of controlled Blimp1 expression, a master transcription factor for plasma cells. Metabolic Engineering, 2022, 69, 73-86.	7.0	8
130	A proteomic approach for identifying cellular proteins interacting with erythropoietin in recombinant Chinese hamster ovary cells. Biotechnology Progress, 2010, 26, 246-251.	2.6	7
131	Development of apoptosis-resistant CHO cell line expressing PyLT for the enhancement of transient antibody production. Process Biochemistry, 2012, 47, 2557-2561.	3.7	7
132	Bcl-2 overexpression in CHO cells improves polyethylenimine-mediated gene transfection. Process Biochemistry, 2013, 48, 1436-1440.	3.7	7
133	Differential expression of microRNAs in recombinant Chinese hamster ovary cells treated with sodium butyrate using digital RNA counting. Journal of Biotechnology, 2018, 283, 37-42.	3.8	7
134	Forskolin Increases cAMP Levels and Enhances Recombinant Antibody Production in CHO Cell Cultures. Biotechnology Journal, 2020, 15, 2000264.	3.5	7
135	A Chinese hamster transcription start site atlas that enables targeted editing of CHO cells. NAR Genomics and Bioinformatics, 2021, 3, lqab061.	3.2	7
136	Effect of anchorage dependency on growth rate and monoclonal antibody production of hybridoma cells. Biotechnology Letters, 1988, 10, 307-312.	2.2	6
137	Development of an in vitro screening system for synthetic signal peptide in mammalian cell-based protein production. Applied Microbiology and Biotechnology, 2022, 106, 3571-3582.	3.6	6
138	A simple analysis system for the estimation of recombination efficiency using fluorescence-activated cell sorting. Journal of Biotechnology, 2007, 127, 373-384.	3.8	5
139	Gadd45-induced cell cycle G2/M arrest for improved transient gene expression in Chinese hamster ovary cells. Biotechnology and Bioprocess Engineering, 2014, 19, 386-393.	2.6	5
140	Co-amplification of EBNA-1 and PyLT through dhfr-mediated gene amplification for improving foreign protein production in transient gene expression in CHO cells. Applied Microbiology and Biotechnology, 2018, 102, 4729-4739.	3.6	5
141	Recombinase-mediated cassette exchange-based screening of a CRISPR/Cas9 library for enhanced recombinant protein production in human embryonic kidney cells: Improving resistance to hyperosmotic stress. Metabolic Engineering, 2022, 72, 247-258.	7.0	5
142	Expression and purification of recombinant human Angiopoietin-1 produced in Chinese hamster ovary cells. In Vitro Cellular and Developmental Biology - Animal, 2007, 43, 162-167.	1.5	4
143	Effect of Bcl-xL overexpression on erythropoietin production in recombinant Chinese hamster ovary cells treated with dimethyl sulfoxide. Process Biochemistry, 2011, 46, 2201-2204.	3.7	4
144	Combinatorial treatment with lithium chloride enhances recombinant antibody production in transiently transfected CHO and HEK293E cells. Biotechnology and Bioprocess Engineering, 2016, 21, 667-675.	2.6	4

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145	Amplification of EBNA-1 through a single-plasmid vector-based gene amplification system in HEK293 cells as an efficient transient gene expression system. Applied Microbiology and Biotechnology, 2021, 105, 67-76.	3.6	4
146	Small molecule epigenetic modulators for enhancing recombinant antibody production in CHO cell cultures. Biotechnology and Bioengineering, 2022, 119, 820-831.	3.3	4
147	Effect of constitutively active ras overexpression on cell growth in recombinant chinese hamster ovary cells. Biotechnology Progress, 2011, 27, 577-580.	2.6	3
148	A role of GADD153 in ER stress-induced apoptosis in recombinant Chinese hamster ovary cells. Biotechnology and Bioprocess Engineering, 2012, 17, 446-455.	2.6	3
149	Purification of TNFR-Fc produced in recombinant CHO cells: Characterization of product-related impurities. Process Biochemistry, 2015, 50, 1313-1317.	3.7	3
150	Comprehensive Physicochemical and Biological Characterization of the Proposed Biosimilar Darbepoetin Alfa, LBDE, and Its Originator Darbepoetin Alfa, NESPÂ®. BioDrugs, 2018, 32, 153-168.	4.6	3
151	Cell Engineering for Therapeutic Protein Production. Cell Engineering, 2015, , 565-590.	0.4	3
152	Effect of Bclâ€x_L overexpression on lactate metabolism in chinese hamster ovary cells producing antibody. Biotechnology Progress, 2013, 29, 1594-1598.	2.6	2
153	Blockage of undesirable endocytosis of recombinant human growth/differentiation factorâ€5 in Chinese hamster ovary cell cultures requires heparin analogs with specific chain lengths. Biotechnology Journal, 2021, 16, e2100227.	3.5	2