

Michael J Betenbaugh

List of Publications by Year in descending order

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258
papers

12,785
citations

23500

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h-index

35952

97
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270
all docs

270
docs citations

270
times ranked

12606
citing authors

#	ARTICLE	IF	CITATIONS
1	The genomic sequence of the Chinese hamster ovary (CHO)-K1 cell line. <i>Nature Biotechnology</i> , 2011, 29, 735-741.	9.4	699
2	A green light for engineered algae: redirecting metabolism to fuel a biotechnology revolution. <i>Current Opinion in Biotechnology</i> , 2008, 19, 430-436.	3.3	524
3	Sex, age, and hospitalization drive antibody responses in a COVID-19 convalescent plasma donor population. <i>Journal of Clinical Investigation</i> , 2020, 130, 6141-6150.	3.9	375
4	Genomic landscapes of Chinese hamster ovary cell lines as revealed by the <i>Cricetulus griseus</i> draft genome. <i>Nature Biotechnology</i> , 2013, 31, 759-765.	9.4	340
5	The effect of mixotrophy on microalgal growth, lipid content, and expression levels of three pathway genes in <i>Chlorella sorokiniana</i> . <i>Applied Microbiology and Biotechnology</i> , 2011, 91, 835-844.	1.7	248
6	A critical analysis of paddlewheel-driven raceway ponds for algal biofuel production at commercial scales. <i>Algal Research</i> , 2014, 4, 76-88.	2.4	234
7	Life and death in mammalian cell culture: strategies for apoptosis inhibition. <i>Trends in Biotechnology</i> , 2004, 22, 174-180.	4.9	205
8	A Consensus Genome-scale Reconstruction of Chinese Hamster Ovary Cell Metabolism. <i>Cell Systems</i> , 2016, 3, 434-443.e8.	2.9	205
9	COVID-19 Serology at Population Scale: SARS-CoV-2-Specific Antibody Responses in Saliva. <i>Journal of Clinical Microbiology</i> , 2020, 59, .	1.8	193
10	Determination of Nucleotides and Sugar Nucleotides Involved in Protein Glycosylation by High-Performance Anion-Exchange Chromatography: Sugar Nucleotide Contents in Cultured Insect Cells and Mammalian Cells. <i>Analytical Biochemistry</i> , 2001, 293, 129-137.	1.1	192
11	Proteomic Analysis of Chinese Hamster Ovary Cells. <i>Journal of Proteome Research</i> , 2012, 11, 5265-5276.	1.8	168
12	Accelerating genome editing in CHO cells using CRISPR Cas9 and CRISPy, a web-based target finding tool. <i>Biotechnology and Bioengineering</i> , 2014, 111, 1604-1616.	1.7	167
13	A mathematical model of N-linked glycosylation. <i>Biotechnology and Bioengineering</i> , 2005, 92, 711-728.	1.7	163
14	The emerging CHO systems biology era: harnessing the omics revolution for biotechnology. <i>Current Opinion in Biotechnology</i> , 2013, 24, 1102-1107.	3.3	159
15	Controlling N-linked glycan site occupancy. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2005, 1726, 121-137.	1.1	149
16	Design and Production of Bispecific Antibodies. <i>Antibodies</i> , 2019, 8, 43.	1.2	146
17	Transcriptome and proteome analysis of Chinese hamster ovary cells under low temperature and butyrate treatment. <i>Journal of Biotechnology</i> , 2010, 145, 143-159.	1.9	137
18	The effects of alternative pretreatment strategies on anaerobic digestion and methane production from different algal strains. <i>Bioresource Technology</i> , 2014, 155, 366-372.	4.8	132

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19	Comparing N-glycan processing in mammalian cell lines to native and engineered lepidopteran insect cell lines. <i>Glycoconjugate Journal</i> , 2004, 21, 343-360.	1.4	131
20	Microalgal biomass production and carbon dioxide sequestration from an integrated ethanol biorefinery in Iowa: A technical appraisal and economic feasibility evaluation. <i>Biomass and Bioenergy</i> , 2011, 35, 3865-3876.	2.9	128
21	An In Vitro Uniaxial Stretch Model for Axonal Injury. <i>Annals of Biomedical Engineering</i> , 2003, 31, 589-598.	1.3	112
22	Comparative Analyses of Three <i>Chlorella</i> Species in Response to Light and Sugar Reveal Distinctive Lipid Accumulation Patterns in the Microalga <i>C. sorokiniana</i> . <i>PLoS ONE</i> , 2014, 9, e92460.	1.1	110
23	Bioprospecting of microalgae for integrated biomass production and phytoremediation of unsterilized wastewater and anaerobic digestion centrate. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 6139-6154.	1.7	107
24	Differential N-Glycan Patterns of Secreted and Intracellular IgG Produced in <i>Trichoplusia ni</i> Cells. <i>Journal of Biological Chemistry</i> , 1997, 272, 9062-9070.	1.6	106
25	Modifying secretion and post-translational processing in insect cells. <i>Current Opinion in Biotechnology</i> , 1999, 10, 142-145.	3.3	99
26	Part II. Overexpression of bcl-2 family members enhances survival of mammalian cells in response to various culture insults. , 2000, 67, 555-564.		99
27	Overcoming apoptosis: new methods for improving protein-expression systems. <i>Trends in Biotechnology</i> , 1998, 16, 88-95.	4.9	97
28	Quantification of cell culture factors affecting recombinant protein yields in baculovirus-infected insect cells. <i>Biotechnology and Bioengineering</i> , 1992, 39, 614-618.	1.7	96
29	A reference genome of the Chinese hamster based on a hybrid assembly strategy. <i>Biotechnology and Bioengineering</i> , 2018, 115, 2087-2100.	1.7	95
30	Expression of anti-apoptosis genes alters lactate metabolism of Chinese Hamster Ovary cells in culture. <i>Biotechnology and Bioengineering</i> , 2009, 103, 592-608.	1.7	92
31	Enhanced cell culture performance using inducible anti-apoptotic genes E1B-19K and Aven in the production of a monoclonal antibody with Chinese hamster ovary cells. <i>Biotechnology and Bioengineering</i> , 2007, 97, 877-892.	1.7	90
32	A mathematical model to derive N-glycan structures and cellular enzyme activities from mass spectrometric data. <i>Glycobiology</i> , 2009, 19, 1163-1175.	1.3	90
33	Inhibiting apoptosis in mammalian cell culture using the caspase inhibitor XIAP and deletion mutants. <i>Biotechnology and Bioengineering</i> , 2002, 77, 704-716.	1.7	88
34	Glucose depletion activates mmu-miR-466h-5p expression through oxidative stress and inhibition of histone deacetylation. <i>Nucleic Acids Research</i> , 2012, 40, 7291-7302.	6.5	87
35	Cloning and Expression of the Human N-Acetylneuraminic Acid Phosphate Synthase Gene with 2-Keto-3-deoxy-d-glycero- d-galacto-nononic Acid Biosynthetic Ability. <i>Journal of Biological Chemistry</i> , 2000, 275, 17869-17877.	1.6	86
36	A novel microRNA mmu-miR-466h affects apoptosis regulation in mammalian cells. <i>Biotechnology and Bioengineering</i> , 2011, 108, 1651-1661.	1.7	86

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37	Genome-Scale Metabolic Model for the Green Alga <i>Chlorella vulgaris</i> UTEX 395 Accurately Predicts Phenotypes under Autotrophic, Heterotrophic, and Mixotrophic Growth Conditions. <i>Plant Physiology</i> , 2016, 172, 589-602.	2.3	86
38	N-glycan patterns of human transferrin produced in <i>Trichoplusia ni</i> insect cells: effects of mammalian galactosyltransferase. <i>Glycobiology</i> , 2000, 10, 837-847.	1.3	83
39	Aven and Bcl-xL enhance protection against apoptosis for mammalian cells exposed to various culture conditions. <i>Biotechnology and Bioengineering</i> , 2004, 85, 589-600.	1.7	82
40	Molecular Chaperones Stimulate the Functional Expression of the Cocaine-sensitive Serotonin Transporter. <i>Journal of Biological Chemistry</i> , 1999, 274, 17551-17558.	1.6	81
41	Links between metabolism and apoptosis in mammalian cells: Applications for anti-apoptosis engineering. <i>Metabolic Engineering</i> , 2007, 9, 317-326.	3.6	80
42	Part I. Bcl-2 and bcl-xL limit apoptosis upon infection with alphavirus vectors. <i>Biotechnology and Bioengineering</i> , 2000, 67, 544-554.	1.7	79
43	A perspective on microarrays: current applications, pitfalls, and potential uses. <i>Microbial Cell Factories</i> , 2007, 6, 4.	1.9	77
44	Antibody glycoengineering strategies in mammalian cells. <i>Biotechnology and Bioengineering</i> , 2018, 115, 1378-1393.	1.7	76
45	Durable SARS-CoV-2 B cell immunity after mild or severe disease. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	76
46	Glycoengineering of Chinese hamster ovary cells for enhanced erythropoietin N-glycan branching and sialylation. <i>Biotechnology and Bioengineering</i> , 2015, 112, 2343-2351.	1.7	75
47	Sequencing the CHO DXB11 genome reveals regional variations in genomic stability and haploidy. <i>BMC Genomics</i> , 2015, 16, 160.	1.2	75
48	Coexpression of Molecular Chaperone BiP Improves Immunoglobulin Solubility and IgG Secretion from <i>Trichoplusia ni</i> Insect Cells. <i>Biotechnology Progress</i> , 1997, 13, 96-104.	1.3	74
49	Chinese hamster genome database: An online resource for the CHO community at www.CHOgenome.org . <i>Biotechnology and Bioengineering</i> , 2012, 109, 1353-1356.	1.7	74
50	Genome-scale reconstructions of the mammalian secretory pathway predict metabolic costs and limitations of protein secretion. <i>Nature Communications</i> , 2020, 11, 68.	5.8	74
51	The effect of iron on growth, lipid accumulation, and gene expression profile of the freshwater microalga <i>Chlorella sorokiniana</i> . <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 9473-9481.	1.7	72
52	Structure and synthesis of polyisoprenoids used in N-glycosylation across the three domains of life. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2009, 1790, 485-494.	1.1	71
53	SnapShot: N-Glycosylation Processing Pathways across Kingdoms. <i>Cell</i> , 2017, 171, 258-258.e1.	13.5	71
54	Stable inhibition of mmu-miR-466h-5p improves apoptosis resistance and protein production in CHO cells. <i>Metabolic Engineering</i> , 2013, 16, 87-94.	3.6	70

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55	Sex Differences in Lung Imaging and SARS-CoV-2 Antibody Responses in a COVID-19 Golden Syrian Hamster Model. <i>MBio</i> , 2021, 12, e0097421.	1.8	69
56	Study of caspase inhibitors for limiting death in mammalian cell culture. <i>Biotechnology and Bioengineering</i> , 2003, 81, 329-340.	1.7	68
57	Karyotype variation of CHO host cell lines over time in culture characterized by chromosome counting and chromosome painting. <i>Biotechnology and Bioengineering</i> , 2018, 115, 165-173.	1.7	67
58	Overexpression of a cytosolic chaperone to improve solubility and secretion of a recombinant IgG protein in insect cells. <i>Biotechnology and Bioengineering</i> , 1998, 58, 196-203.	1.7	66
59	Conversion of MDCK cell line to suspension culture by transfecting with human <i>siat7e</i> gene and its application for influenza virus production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 14802-14807.	3.3	66
60	QUANTITY: An Isobaric Tag for Quantitative Glycomics. <i>Scientific Reports</i> , 2015, 5, 17585.	1.6	65
61	Anaerobic digestion of lipid-extracted <i>Auxenochlorella protothecoides</i> biomass for methane generation and nutrient recovery. <i>Bioresource Technology</i> , 2015, 183, 229-239.	4.8	65
62	Mimicking lichens: incorporation of yeast strains together with sucrose-secreting cyanobacteria improves survival, growth, ROS removal, and lipid production in a stable mutualistic co-culture production platform. <i>Biotechnology for Biofuels</i> , 2017, 10, 55.	6.2	65
63	Recombinant Antibody Production in CHO and NS0 Cells: Differences and Similarities. <i>BioDrugs</i> , 2018, 32, 571-584.	2.2	65
64	Biosynthesis of human-type N-glycans in heterologous systems. <i>Current Opinion in Structural Biology</i> , 2004, 14, 601-606.	2.6	64
65	Early prediction of instability of chinese hamster ovary cell lines expressing recombinant antibodies and antibody-fusion proteins. <i>Biotechnology and Bioengineering</i> , 2012, 109, 1016-1030.	1.7	64
66	Physiological evaluation of a new <i>Chlorella sorokiniana</i> isolate for its biomass production and lipid accumulation in photoautotrophic and heterotrophic cultures. <i>Biotechnology and Bioengineering</i> , 2012, 109, 1958-1964.	1.7	62
67	Integration of the Transcriptome and Glycome for Identification of Glycan Cell Signatures. <i>PLoS Computational Biology</i> , 2013, 9, e1002813.	1.5	61
68	Effects of Co-Expressing Chaperone BiP on Functional Antibody Production in the Baculovirus System. <i>Protein Expression and Purification</i> , 1994, 5, 595-603.	0.6	60
69	Production and N-glycan analysis of secreted human erythropoietin glycoprotein in stably transfected <i>Drosophila</i> S2 cells. <i>Biotechnology and Bioengineering</i> , 2005, 92, 452-461.	1.7	60
70	Cloning and expression of human sialic acid pathway genes to generate CMP-sialic acids in insect cells. <i>Glycoconjugate Journal</i> , 2001, 18, 205-213.	1.4	58
71	Expression of a functional <i>Drosophila melanogaster</i> N-acetylneuraminic acid (Neu5Ac) phosphate synthase gene: evidence for endogenous sialic acid biosynthetic ability in insects. <i>Glycobiology</i> , 2002, 12, 73-83.	1.3	58
72	Enhancement of transient gene expression and culture viability using Chinese hamster ovary cells overexpressing Bcl-2. <i>Biotechnology and Bioengineering</i> , 2008, 101, 567-578.	1.7	58

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73	Effects of dissolved oxygen shock on the stability of recombinant <i>Escherichia coli</i> containing plasmid pKN401. <i>Biotechnology and Bioengineering</i> , 1987, 29, 85-91.	1.7	56
74	Engineering Sialic Acid Synthetic Ability into Insect Cells: Identifying Metabolic Bottlenecks and Devising Strategies To Overcome Them. <i>Biochemistry</i> , 2003, 42, 15215-15225.	1.2	56
75	I. Study of protein aggregation due to heat denaturation: A structural approach using circular dichroism spectroscopy, nuclear magnetic resonance, and static light scattering. , 1998, 59, 273-280.		55
76	Synthetic microbial communities of heterotrophs and phototrophs facilitate sustainable growth. <i>Nature Communications</i> , 2020, 11, 3803.	5.8	55
77	Humanization of Lepidopteran Insect-Cell-Produced Glycoproteins. <i>Accounts of Chemical Research</i> , 2003, 36, 613-620.	7.6	54
78	A multi-pronged investigation into the effect of glucose starvation and culture duration on fed-batch CHO cell culture. <i>Biotechnology and Bioengineering</i> , 2015, 112, 2172-2184.	1.7	54
79	Phytoremediation of agriculture runoff by filamentous algae poly-culture for biomethane production, and nutrient recovery for secondary cultivation of lipid generating microalgae. <i>Bioresource Technology</i> , 2016, 222, 294-308.	4.8	54
80	Environmental stimuli drive a transition from cooperation to competition in synthetic phototrophic communities. <i>Nature Microbiology</i> , 2019, 4, 2184-2191.	5.9	54
81	Mcl-1 overexpression leads to higher viabilities and increased production of humanized monoclonal antibody in Chinese hamster ovary cells. <i>Biotechnology Progress</i> , 2009, 25, 1161-1168.	1.3	53
82	Nucleocapsid- and virus-like particles assemble in cells infected with recombinant baculoviruses or vaccinia viruses expressing the M and the S segments of Hantaan virus. <i>Virus Research</i> , 1995, 38, 111-124.	1.1	52
83	Engineering cells to improve protein expression. <i>Current Opinion in Structural Biology</i> , 2014, 26, 32-38.	2.6	52
84	Bcl-2 family in inter-organelle modulation of calcium signaling; roles in bioenergetics and cell survival. <i>Journal of Bioenergetics and Biomembranes</i> , 2014, 46, 1-15.	1.0	52
85	Combining caspase and mitochondrial dysfunction inhibitors of apoptosis to limit cell death in mammalian cell cultures. <i>Biotechnology and Bioengineering</i> , 2006, 94, 362-372.	1.7	51
86	Rescue of Immunoglobulins from Insolubility Is Facilitated by PDI in the Baculovirus Expression System. <i>Protein Expression and Purification</i> , 1996, 7, 281-288.	0.6	50
87	Comparison of Bcl-2 to a Bcl-2 deletion mutant for mammalian cells exposed to culture insults. <i>Biotechnology and Bioengineering</i> , 2001, 73, 211-222.	1.7	49
88	Enhancement of cell proliferation in various mammalian cell lines by gene insertion of a cyclin-dependent kinase homolog. <i>BMC Biotechnology</i> , 2007, 7, 71.	1.7	49
89	Predicting Dynamic Metabolic Demands in the Photosynthetic Eukaryote <i>Chlorella vulgaris</i> . <i>Plant Physiology</i> , 2018, 176, 450-462.	2.3	49
90	Purification, Characterization, and Cloning of a <i>Spodoptera frugiperda</i> Sf9 β -N-Acetylhexosaminidase That Hydrolyzes Terminal N-Acetylglucosamine on the N-Glycan Core. <i>Journal of Biological Chemistry</i> , 2006, 281, 19545-19560.	1.6	48

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91	The impact of anti-apoptotic gene Bcl-2 [†] expression on CHO central metabolism. <i>Metabolic Engineering</i> , 2014, 25, 92-102.	3.6	48
92	Physiologic and pathophysiologic consequences of altered sialylation and glycosylation on ion channel function. <i>Biochemical and Biophysical Research Communications</i> , 2014, 453, 243-253.	1.0	48
93	Synergistic co-digestion of wastewater grown algae-bacteria polyculture biomass and cellulose to optimize carbon-to-nitrogen ratio and application of kinetic models to predict anaerobic digestion energy balance. <i>Bioresource Technology</i> , 2018, 269, 210-220.	4.8	48
94	A comparison of the properties of a Bcl-xL variant to the wild-type anti-apoptosis inhibitor in mammalian cell cultures. <i>Metabolic Engineering</i> , 2003, 5, 230-245.	3.6	46
95	High-throughput screening and selection of mammalian cells for enhanced protein production. <i>Biotechnology Journal</i> , 2016, 11, 853-865.	1.8	45
96	<i>N-glycosylation of IgG and IgG-Like Recombinant Therapeutic Proteins: Why Is It Important and How Can We Control It?</i> . <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2020, 11, 311-338.	3.3	45
97	An improved colony PCR procedure for genetic screening of <i>Chlorella</i> and related microalgae. <i>Biotechnology Letters</i> , 2011, 33, 1615-1619.	1.1	44
98	Cellular Trafficking and Photochemical Internalization of Cell Penetrating Peptide Linked Cargo Proteins: A Dual Fluorescent Labeling Study. <i>Bioconjugate Chemistry</i> , 2011, 22, 556-566.	1.8	43
99	Application of ¹³ C flux analysis to identify high-productivity CHO metabolic phenotypes. <i>Metabolic Engineering</i> , 2017, 43, 218-225.	3.6	43
100	Comprehensive Glycoproteomic Analysis of Chinese Hamster Ovary Cells. <i>Analytical Chemistry</i> , 2018, 90, 14294-14302.	3.2	42
101	Effects of plasmid amplification and recombinant gene expression on the growth kinetics of recombinant <i>E. coli</i> . <i>Biotechnology and Bioengineering</i> , 1989, 33, 1425-1436.	1.7	41
102	Antiapoptosis chemicals prolong productive lifetimes of mammalian cells upon Sindbis virus vector infection. <i>Biotechnology and Bioengineering</i> , 1999, 65, 298-305.	1.7	41
103	Complex-type biantennary N-glycans of recombinant human transferrin from <i>Trichoplusia ni</i> insect cells expressing mammalian beta-1,4-galactosyltransferase and beta-1,2-N-acetylglucosaminyltransferase II. <i>Glycobiology</i> , 2003, 13, 23-34.	1.3	41
104	Large-scale screening identifies a novel microRNA, miR-15a-3p, which induces apoptosis in human cancer cell lines. <i>RNA Biology</i> , 2013, 10, 287-300.	1.5	41
105	The non-apoptotic action of Bcl-xL: regulating Ca ²⁺ signaling and bioenergetics at the ER-mitochondrion interface. <i>Journal of Bioenergetics and Biomembranes</i> , 2016, 48, 211-225.	1.0	41
106	Mixed Trophic State Production Process for Microalgal Biomass with High Lipid Content for Generating Biodiesel and Biogas. <i>Bioenergy Research</i> , 2014, 7, 1174-1185.	2.2	40
107	Systems Glycobiology: Integrating Glycogenomics, Glycoproteomics, Glycomics, and Other ^{Omics} Data Sets to Characterize Cellular Glycosylation Processes. <i>Journal of Molecular Biology</i> , 2016, 428, 3337-3352.	2.0	39
108	Model-based analysis of N-glycosylation in Chinese hamster ovary cells. <i>PLoS ONE</i> , 2017, 12, e0175376.	1.1	39

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109	Integrated Genome and Protein Editing Swaps α 2,6 Sialylation for α 2,3 Sialic Acid on Recombinant Antibodies from CHO. <i>Biotechnology Journal</i> , 2017, 12, 1600502.	1.8	38
110	II. Electrostatic effect in the aggregation of heat-denatured RNase A and implications for protein additive design. , 1998, 59, 281-285.		37
111	Anti-apoptotic genes Aven and E1B-19K enhance performance of BHK cells engineered to express recombinant factor VIII in batch and low perfusion cell culture. <i>Biotechnology and Bioengineering</i> , 2007, 98, 825-841.	1.7	37
112	Improvement of product yields by temperature-shifting of <i>Escherichia coli</i> cultures containing plasmid pOU140. <i>Biotechnology and Bioengineering</i> , 1987, 29, 513-519.	1.7	36
113	Optimization of tetracycline-responsive recombinant protein production and effect on cell growth and ER stress in mammalian cells. <i>Biotechnology and Bioengineering</i> , 2005, 91, 722-732.	1.7	36
114	False positive reactivity of recombinant, diagnostic, glycoproteins produced in High Five [®] insect cells: Effect of glycosylation. <i>Journal of Immunological Methods</i> , 2008, 330, 130-136.	0.6	36
115	Expression of a Functional <i>Drosophila melanogaster</i> CMP-sialic Acid Synthetase. <i>Journal of Biological Chemistry</i> , 2006, 281, 15929-15940.	1.6	35
116	Elucidation of the CHO Super-Ome (CHO-SO) by Proteoinformatics. <i>Journal of Proteome Research</i> , 2015, 14, 4687-4703.	1.8	35
117	Characterization of N-acetylneuraminic acid synthase isoenzyme 1 from <i>Campylobacter jejuni</i> . <i>Biochemical Journal</i> , 2004, 383, 83-89.	1.7	34
118	Assessment of the coordinated role of ST3GAL3, ST3GAL4 and ST3GAL6 on the α 2,3 sialylation linkage of mammalian glycoproteins. <i>Biochemical and Biophysical Research Communications</i> , 2015, 463, 211-215.	1.0	34
119	Feast or famine: autophagy control and engineering in eukaryotic cell culture. <i>Current Opinion in Biotechnology</i> , 2008, 19, 518-526.	3.3	32
120	A novel sugar analog enhances sialic acid production and biotherapeutic sialylation in CHO cells. <i>Biotechnology and Bioengineering</i> , 2017, 114, 1899-1902.	1.7	32
121	Combinatorial genome and protein engineering yields monoclonal antibodies with hypergalactosylation from CHO cells. <i>Biotechnology and Bioengineering</i> , 2017, 114, 2848-2856.	1.7	32
122	Production of lipid-containing algal-bacterial polyculture in wastewater and biomethanation of lipid extracted residues: Enhancing methane yield through hydrothermal pretreatment and relieving solvent toxicity through co-digestion. <i>Science of the Total Environment</i> , 2019, 653, 1377-1394.	3.9	32
123	E2F-1 overexpression increases viable cell density in batch cultures of Chinese hamster ovary cells. <i>Journal of Biotechnology</i> , 2008, 138, 103-106.	1.9	31
124	Efficient lipid extraction and quantification of fatty acids from algal biomass using accelerated solvent extraction (ASE). <i>RSC Advances</i> , 2016, 6, 29127-29134.	1.7	31
125	High-Throughput Lipidomic and Transcriptomic Analysis To Compare SP2/O, CHO, and HEK-293 Mammalian Cell Lines. <i>Analytical Chemistry</i> , 2017, 89, 1477-1485.	3.2	31
126	An unconventional uptake rate objective function approach enhances applicability of genome-scale models for mammalian cells. <i>Npj Systems Biology and Applications</i> , 2019, 5, 25.	1.4	30

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127	Inhibiting the apoptosis pathway using MDM2 in mammalian cell cultures. <i>Biotechnology and Bioengineering</i> , 2007, 97, 601-614.	1.7	29
128	GlycoFly: A Database of <i>Drosophila</i> N-linked Glycoproteins Identified Using SPEG-MS Techniques. <i>Journal of Proteome Research</i> , 2011, 10, 2777-2784.	1.8	29
129	A comparison of mathematical model predictions to experimental measurements for growth and recombinant protein production in induced cultures of <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 1990, 36, 124-134.	1.7	28
130	A Bacterial Signal Peptidase Enhances Processing of a Recombinant Single Chain Antibody Fragment in Insect Cells. <i>Biochemical and Biophysical Research Communications</i> , 1999, 255, 444-450.	1.0	28
131	Mineral and non-carbon nutrient utilization and recovery during sequential phototrophic-heterotrophic growth of lipid-rich algae. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 5261-5273.	1.7	28
132	N-glycan structures of human transferrin produced by <i>Lymantria dispar</i> (gypsy moth) cells using the LdMNPV expression system. <i>Glycobiology</i> , 2003, 13, 539-548.	1.3	27
133	An HPLC-MALDI MS method for N-glycan analyses using smaller size samples: Application to monitor glycan modulation by medium conditions. <i>Glycoconjugate Journal</i> , 2009, 26, 1135-1149.	1.4	27
134	Enhanced transient recombinant protein production in CHO cells through the co-transfection of the product gene with <i>Bcl-2</i> . <i>Biotechnology Journal</i> , 2014, 9, 1164-1174.	1.8	27
135	β -(1 \rightarrow 4)-Galactosyltransferase activity in native and engineered insect cells measured with time-resolved europium fluorescence. <i>Carbohydrate Research</i> , 2002, 337, 2181-2186.	1.1	26
136	Molecular Cloning and Characterization of a Novel α -Amylase from Antarctic Sea Ice Bacterium <i>Pseudoalteromonas</i> sp. M175 and Its Primary Application in Detergent. <i>BioMed Research International</i> , 2018, 2018, 1-16.	0.9	26
137	Thioredoxin Domain Non-equivalence and Anti-chaperone Activity of Protein Disulfide Isomerase Mutants in Vivo. <i>Journal of Biological Chemistry</i> , 1997, 272, 22556-22563.	1.6	25
138	Regulating apoptosis in mammalian cell cultures. <i>Cytotechnology</i> , 2006, 50, 77-92.	0.7	25
139	The beta-3 adrenergic agonist (CL-316,243) restores the expression of down-regulated fatty acid oxidation genes in type 2 diabetic mice. <i>Nutrition and Metabolism</i> , 2015, 12, 8.	1.3	25
140	Production of recombinant proteins by baculovirus-infected gypsy moth cells. <i>Biotechnology Progress</i> , 1991, 7, 462-467.	1.3	24
141	Bcl-2 inhibits apoptosis and extends recombinant protein production in cells infected with Sindbis viral vectors. <i>Cytotechnology</i> , 1996, 22, 169-178.	0.7	24
142	Application of microarrays to identify and characterize genes involved in attachment dependence in HeLa cells. <i>Metabolic Engineering</i> , 2007, 9, 241-251.	3.6	24
143	GlycoFish: A Database of Zebrafish N-linked Glycoproteins Identified Using SPEG Method Coupled with LC/MS. <i>Analytical Chemistry</i> , 2011, 83, 5296-5303.	3.2	24
144	Butyrate ManNAc analog improves protein expression in Chinese hamster ovary cells. <i>Biotechnology and Bioengineering</i> , 2018, 115, 1531-1541.	1.7	24

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145	Impact of nucleotide sugar metabolism on protein N-glycosylation in Chinese Hamster Ovary (CHO) cell culture. <i>Current Opinion in Chemical Engineering</i> , 2018, 22, 167-176.	3.8	24
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