

# Michael J Betenbaugh

## List of Publications by Citations

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256  
papers

10,179  
citations

54  
h-index

89  
g-index

270  
ext. papers

11,625  
ext. citations

6.4  
avg, IF

6.22  
L-index

#	Paper	IF	Citations
256	The genomic sequence of the Chinese hamster ovary (CHO)-K1 cell line. <i>Nature Biotechnology</i> , <b>2011</b> , 29, 735-41	44.5	584
255	A green light for engineered algae: redirecting metabolism to fuel a biotechnology revolution. <i>Current Opinion in Biotechnology</i> , <b>2008</b> , 19, 430-6	11.4	449
254	Genomic landscapes of Chinese hamster ovary cell lines as revealed by the <i>Cricetulus griseus</i> draft genome. <i>Nature Biotechnology</i> , <b>2013</b> , 31, 759-65	44.5	289
253	Sex, age, and hospitalization drive antibody responses in a COVID-19 convalescent plasma donor population. <i>Journal of Clinical Investigation</i> , <b>2020</b> , 130, 6141-6150	15.9	239
252	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> , <b>2011</b> , 91, 835-44	5.7	217
251	A critical analysis of paddlewheel-driven raceway ponds for algal biofuel production at commercial scales. <i>Algal Research</i> , <b>2014</b> , 4, 76-88	5	207
250	Life and death in mammalian cell culture: strategies for apoptosis inhibition. <i>Trends in Biotechnology</i> , <b>2004</b> , 22, 174-80	15.1	190
249	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> , <b>2001</b> , 293, 129-37	3.1	176
248	A Consensus Genome-scale Reconstruction of Chinese Hamster Ovary Cell Metabolism. <i>Cell Systems</i> , <b>2016</b> , 3, 434-443.e8	10.6	145
247	The emerging CHO systems biology era: harnessing the Omics revolution for biotechnology. <i>Current Opinion in Biotechnology</i> , <b>2013</b> , 24, 1102-7	11.4	138
246	Accelerating genome editing in CHO cells using CRISPR Cas9 and CRISPy, a web-based target finding tool. <i>Biotechnology and Bioengineering</i> , <b>2014</b> , 111, 1604-16	4.9	137
245	A mathematical model of N-linked glycosylation. <i>Biotechnology and Bioengineering</i> , <b>2005</b> , 92, 711-28	4.9	136
244	Controlling N-linked glycan site occupancy. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2005</b> , 1726, 121-37	4	131
243	Proteomic analysis of Chinese hamster ovary cells. <i>Journal of Proteome Research</i> , <b>2012</b> , 11, 5265-76	5.6	128
242	Transcriptome and proteome analysis of Chinese hamster ovary cells under low temperature and butyrate treatment. <i>Journal of Biotechnology</i> , <b>2010</b> , 145, 143-59	3.7	124
241	Comparing N-glycan processing in mammalian cell lines to native and engineered lepidopteran insect cell lines. <i>Glycoconjugate Journal</i> , <b>2004</b> , 21, 343-60	3	107
240	The effects of alternative pretreatment strategies on anaerobic digestion and methane production from different algal strains. <i>Bioresource Technology</i> , <b>2014</b> , 155, 366-72	11	105

239	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> , <b>2011</b> , 35, 3865-3876	5.3	105
238	COVID-19 Serology at Population Scale: SARS-CoV-2-Specific Antibody Responses in Saliva. <i>Journal of Clinical Microbiology</i> , <b>2020</b> , 59,	9.7	94
237	Overcoming apoptosis: new methods for improving protein-expression systems. <i>Trends in Biotechnology</i> , <b>1998</b> , 16, 88-95	15.1	93
236	Part II. Overexpression of bcl-2 family members enhances survival of mammalian cells in response to various culture insults. <i>Biotechnology and Bioengineering</i> , <b>2000</b> , 67, 555-64	4.9	93
235	Comparative analyses of three Chlorella species in response to light and sugar reveal distinctive lipid accumulation patterns in the Microalga <i>C. sorokiniana</i> . <i>PLoS ONE</i> , <b>2014</b> , 9, e92460	3.7	91
234	An in vitro uniaxial stretch model for axonal injury. <i>Annals of Biomedical Engineering</i> , <b>2003</b> , 31, 589-98	4.7	90
233	Modifying secretion and post-translational processing in insect cells. <i>Current Opinion in Biotechnology</i> , <b>1999</b> , 10, 142-5	11.4	89
232	Differential N-glycan patterns of secreted and intracellular IgG produced in <i>Trichoplusia ni</i> cells. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 9062-70	5.4	87
231	Quantification of cell culture factors affecting recombinant protein yields in baculovirus-infected insect cells. <i>Biotechnology and Bioengineering</i> , <b>1992</b> , 39, 614-8	4.9	85
230	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> , <b>2007</b> , 97, 877-92	4.9	82
229	Inhibiting apoptosis in mammalian cell culture using the caspase inhibitor XIAP and deletion mutants. <i>Biotechnology and Bioengineering</i> , <b>2002</b> , 77, 704-16	4.9	82
228	Part I. Bcl-2 and bcl-xL limit apoptosis upon infection with alphavirus vectors. <i>Biotechnology and Bioengineering</i> , <b>2000</b> , 67, 544-554	4.9	78
227	Bioprospecting of microalgae for integrated biomass production and phytoremediation of unsterilized wastewater and anaerobic digestion centrate. <i>Applied Microbiology and Biotechnology</i> , <b>2015</b> , 99, 6139-54	5.7	76
226	N-glycan patterns of human transferrin produced in <i>Trichoplusia ni</i> insect cells: effects of mammalian galactosyltransferase. <i>Glycobiology</i> , <b>2000</b> , 10, 837-47	5.8	76
225	Expression of anti-apoptosis genes alters lactate metabolism of Chinese Hamster Ovary cells in culture. <i>Biotechnology and Bioengineering</i> , <b>2009</b> , 103, 592-608	4.9	75
224	Aven and Bcl-xL enhance protection against apoptosis for mammalian cells exposed to various culture conditions. <i>Biotechnology and Bioengineering</i> , <b>2004</b> , 85, 589-600	4.9	75
223	Molecular chaperones stimulate the functional expression of the cocaine-sensitive serotonin transporter. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 17551-8	5.4	74
222	Links between metabolism and apoptosis in mammalian cells: applications for anti-apoptosis engineering. <i>Metabolic Engineering</i> , <b>2007</b> , 9, 317-26	9.7	73

221	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> , <b>2000</b> , 275, 17869-77	5.4	73
220	A mathematical model to derive N-glycan structures and cellular enzyme activities from mass spectrometric data. <i>Glycobiology</i> , <b>2009</b> , 19, 1163-75	5.8	72
219	Design and Production of Bispecific Antibodies. <i>Antibodies</i> , <b>2019</b> , 8,	7	71
218	A novel microRNA mmu-miR-466h affects apoptosis regulation in mammalian cells. <i>Biotechnology and Bioengineering</i> , <b>2011</b> , 108, 1651-61	4.9	71
217	Glucose depletion activates mmu-miR-466h-5p expression through oxidative stress and inhibition of histone deacetylation. <i>Nucleic Acids Research</i> , <b>2012</b> , 40, 7291-302	20.1	69
216	Glycoengineering of Chinese hamster ovary cells for enhanced erythropoietin N-glycan branching and sialylation. <i>Biotechnology and Bioengineering</i> , <b>2015</b> , 112, 2343-51	4.9	68
215	Study of caspase inhibitors for limiting death in mammalian cell culture. <i>Biotechnology and Bioengineering</i> , <b>2003</b> , 81, 329-40	4.9	65
214	Chinese hamster genome database: an online resource for the CHO community at <a href="http://www.CHOgenome.org">www.CHOgenome.org</a> . <i>Biotechnology and Bioengineering</i> , <b>2012</b> , 109, 1353-6	4.9	64
213	Stable inhibition of mmu-miR-466h-5p improves apoptosis resistance and protein production in CHO cells. <i>Metabolic Engineering</i> , <b>2013</b> , 16, 87-94	9.7	63
212	Coexpression of molecular chaperone BIP improves immunoglobulin solubility and IgG secretion from <i>Trichoplusia ni</i> insect cells. <i>Biotechnology Progress</i> , <b>1997</b> , 13, 96-104	2.8	63
211	A perspective on microarrays: current applications, pitfalls, and potential uses. <i>Microbial Cell Factories</i> , <b>2007</b> , 6, 4	6.4	62
210	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> , <b>2016</b> , 172, 589-602	6.6	62
209	Sequencing the CHO DXB11 genome reveals regional variations in genomic stability and haploidy. <i>BMC Genomics</i> , <b>2015</b> , 16, 160	4.5	61
208	Overexpression of a cytosolic chaperone to improve solubility and secretion of a recombinant IgG protein in insect cells. <i>Biotechnology and Bioengineering</i> , <b>1998</b> , 58, 196-203	4.9	59
207	Biosynthesis of human-type N-glycans in heterologous systems. <i>Current Opinion in Structural Biology</i> , <b>2004</b> , 14, 601-6	8.1	59
206	Production and N-glycan analysis of secreted human erythropoietin glycoprotein in stably transfected <i>Drosophila</i> S2 cells. <i>Biotechnology and Bioengineering</i> , <b>2005</b> , 92, 452-61	4.9	58
205	Structure and synthesis of polyisoprenoids used in N-glycosylation across the three domains of life. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2009</b> , 1790, 485-94	4	57
204	A reference genome of the Chinese hamster based on a hybrid assembly strategy. <i>Biotechnology and Bioengineering</i> , <b>2018</b> , 115, 2087-2100	4.9	55

203	Early prediction of instability of Chinese hamster ovary cell lines expressing recombinant antibodies and antibody-fusion proteins. <i>Biotechnology and Bioengineering</i> , <b>2012</b> , 109, 1016-30	4.9	55
202	QUANTITY: An Isobaric Tag for Quantitative Glycomics. <i>Scientific Reports</i> , <b>2015</b> , 5, 17585	4.9	54
201	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> , <b>2012</b> , 109, 1958-64	4.9	54
200	Enhancement of transient gene expression and culture viability using Chinese hamster ovary cells overexpressing Bcl-x(L). <i>Biotechnology and Bioengineering</i> , <b>2008</b> , 101, 567-78	4.9	54
199	Effects of dissolved oxygen shock on the stability of recombinant <i>Escherichia coli</i> containing plasmid pKN401. <i>Biotechnology and Bioengineering</i> , <b>1987</b> , 29, 85-91	4.9	54
198	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> , <b>2009</b> , 106, 14802-7	11.5	53
197	Effects of co-expressing chaperone BiP on functional antibody production in the baculovirus system. <i>Protein Expression and Purification</i> , <b>1994</b> , 5, 595-603	2	52
196	Anaerobic digestion of lipid-extracted <i>Auxenochlorella protothecoides</i> biomass for methane generation and nutrient recovery. <i>Bioresource Technology</i> , <b>2015</b> , 183, 229-39	11	51
195	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> , <b>2014</b> , 98, 9473-81	5.7	51
194	Integration of the transcriptome and glycome for identification of glycan cell signatures. <i>PLoS Computational Biology</i> , <b>2013</b> , 9, e1002813	5	51
193	Antibody glycoengineering strategies in mammalian cells. <i>Biotechnology and Bioengineering</i> , <b>2018</b> , 115, 1378-1393	4.9	50
192	Combining caspase and mitochondrial dysfunction inhibitors of apoptosis to limit cell death in mammalian cell cultures. <i>Biotechnology and Bioengineering</i> , <b>2006</b> , 94, 362-72	4.9	50
191	Humanization of lepidopteran insect-cell-produced glycoproteins. <i>Accounts of Chemical Research</i> , <b>2003</b> , 36, 613-20	24.3	50
190	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> , <b>2002</b> , 12, 73-83	5.8	50
189	Engineering sialic acid synthetic ability into insect cells: identifying metabolic bottlenecks and devising strategies to overcome them. <i>Biochemistry</i> , <b>2003</b> , 42, 15215-25	3.2	48
188	Comparison of Bcl-2 to a Bcl-2 deletion mutant for mammalian cells exposed to culture insults. <i>Biotechnology and Bioengineering</i> , <b>2001</b> , 73, 211-22	4.9	48
187	Cloning and expression of human sialic acid pathway genes to generate CMP-sialic acids in insect cells. <i>Glycoconjugate Journal</i> , <b>2001</b> , 18, 205-13	3	48
186	I. Study of protein aggregation due to heat denaturation: A structural approach using circular dichroism spectroscopy, nuclear magnetic resonance, and static light scattering <b>1998</b> , 59, 273-280		47

185	A multi-pronged investigation into the effect of glucose starvation and culture duration on fed-batch CHO cell culture. <i>Biotechnology and Bioengineering</i> , <b>2015</b> , 112, 2172-84	4.9	46
184	Mcl-1 overexpression leads to higher viabilities and increased production of humanized monoclonal antibody in Chinese hamster ovary cells. <i>Biotechnology Progress</i> , <b>2009</b> , 25, 1161-8	2.8	46
183	Purification, characterization, and cloning of a <i>Spodoptera frugiperda</i> Sf9 beta-N-acetylhexosaminidase that hydrolyzes terminal N-acetylglucosamine on the N-glycan core. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 19545-60	5.4	45
182	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> , <b>2003</b> , 5, 230-45	9.7	45
181	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> , <b>2017</b> , 10, 55	7.8	44
180	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> , <b>1995</b> , 38, 111-24	6.4	44
179	Karyotype variation of CHO host cell lines over time in culture characterized by chromosome counting and chromosome painting. <i>Biotechnology and Bioengineering</i> , <b>2018</b> , 115, 165-173	4.9	43
178	Engineering cells to improve protein expression. <i>Current Opinion in Structural Biology</i> , <b>2014</b> , 26, 32-8	8.1	43
177	Rescue of immunoglobulins from insolubility is facilitated by PDI in the baculovirus expression system. <i>Protein Expression and Purification</i> , <b>1996</b> , 7, 281-8	2	42
176	SnapShot: N-Glycosylation Processing Pathways across Kingdoms. <i>Cell</i> , <b>2017</b> , 171, 258-258.e1	56.2	41
175	Bcl-2 family in inter-organelle modulation of calcium signaling; roles in bioenergetics and cell survival. <i>Journal of Bioenergetics and Biomembranes</i> , <b>2014</b> , 46, 1-15	3.7	40
174	Cellular trafficking and photochemical internalization of cell penetrating peptide linked cargo proteins: a dual fluorescent labeling study. <i>Bioconjugate Chemistry</i> , <b>2011</b> , 22, 556-66	6.3	40
173	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> , <b>2016</b> , 222, 294-308	11	40
172	Physiologic and pathophysiologic consequences of altered sialylation and glycosylation on ion channel function. <i>Biochemical and Biophysical Research Communications</i> , <b>2014</b> , 453, 243-53	3.4	39
171	Durable SARS-CoV-2 B cell immunity after mild or severe disease. <i>Journal of Clinical Investigation</i> , <b>2021</b> , 131,	15.9	39
170	The impact of anti-apoptotic gene Bcl-2 expression on CHO central metabolism. <i>Metabolic Engineering</i> , <b>2014</b> , 25, 92-102	9.7	37
169	Mixed Trophic State Production Process for Microalgal Biomass with High Lipid Content for Generating Biodiesel and Biogas. <i>Bioenergy Research</i> , <b>2014</b> , 7, 1174-1185	3.1	37
168	Large-scale screening identifies a novel microRNA, miR-15a-3p, which induces apoptosis in human cancer cell lines. <i>RNA Biology</i> , <b>2013</b> , 10, 287-300	4.8	37

167	Enhancement of cell proliferation in various mammalian cell lines by gene insertion of a cyclin-dependent kinase homolog. <i>BMC Biotechnology</i> , <b>2007</b> , 7, 71	3.5	37
166	Antiapoptosis chemicals prolong productive lifetimes of mammalian cells upon Sindbis virus vector infection. <i>Biotechnology and Bioengineering</i> , <b>1999</b> , 65, 298-305	4.9	37
165	Effects of plasmid amplification and recombinant gene expression on the growth kinetics of recombinant <i>E. coli</i> . <i>Biotechnology and Bioengineering</i> , <b>1989</b> , 33, 1425-36	4.9	37
164	Genome-scale reconstructions of the mammalian secretory pathway predict metabolic costs and limitations of protein secretion. <i>Nature Communications</i> , <b>2020</b> , 11, 68	17.4	37
163	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> , <b>2003</b> , 13, 23-34	5.8	36
162	High-throughput screening and selection of mammalian cells for enhanced protein production. <i>Biotechnology Journal</i> , <b>2016</b> , 11, 853-65	5.6	36
161	Application of C flux analysis to identify high-productivity CHO metabolic phenotypes. <i>Metabolic Engineering</i> , <b>2017</b> , 43, 218-225	9.7	35
160	An improved colony PCR procedure for genetic screening of <i>Chlorella</i> and related microalgae. <i>Biotechnology Letters</i> , <b>2011</b> , 33, 1615-9	3	35
159	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> , <b>2007</b> , 98, 825-41	4.9	35
158	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> , <b>2016</b> , 48, 211-25	3.7	35
157	Predicting Dynamic Metabolic Demands in the Photosynthetic Eukaryote. <i>Plant Physiology</i> , <b>2018</b> , 176, 450-462	6.6	34
156	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> , <b>2018</b> , 269, 210-220	11	34
155	False positive reactivity of recombinant, diagnostic, glycoproteins produced in High Five insect cells: effect of glycosylation. <i>Journal of Immunological Methods</i> , <b>2008</b> , 330, 130-6	2.5	34
154	Environmental stimuli drive a transition from cooperation to competition in synthetic phototrophic communities. <i>Nature Microbiology</i> , <b>2019</b> , 4, 2184-2191	26.6	33
153	Characterization of N-acetylneuraminic acid synthase isoenzyme 1 from <i>Campylobacter jejuni</i> . <i>Biochemical Journal</i> , <b>2004</b> , 383, 83-9	3.8	33
152	II. Electrostatic effect in the aggregation of heat-denatured RNase A and implications for protein additive design <b>1998</b> , 59, 281-285		32
151	Expression of a functional <i>Drosophila melanogaster</i> CMP-sialic acid synthetase. Differential localization of the <i>Drosophila</i> and human enzymes. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 15929-40	5.4	32
150	COVID-19 serology at population scale: SARS-CoV-2-specific antibody responses in saliva <b>2020</b> ,		32

149	Recombinant Antibody Production in CHO and NS0 Cells: Differences and Similarities. <i>BioDrugs</i> , <b>2018</b> , 32, 571-584	7.9	32
148	Systems Glycobiology: Integrating Glycogenomics, Glycoproteomics, Glycomics, and Other Omics Data Sets to Characterize Cellular Glycosylation Processes. <i>Journal of Molecular Biology</i> , <b>2016</b> , 428, 3337-3352	6.5	31
147	Improvement of product yields by temperature-shifting of Escherichia coli cultures containing plasmid pOU140. <i>Biotechnology and Bioengineering</i> , <b>1987</b> , 29, 513-9	4.9	31
146	Assessment of the coordinated role of ST3GAL3, ST3GAL4 and ST3GAL6 on the $\alpha$ ,3 sialylation linkage of mammalian glycoproteins. <i>Biochemical and Biophysical Research Communications</i> , <b>2015</b> , 463, 211-5	3.4	30
145	E2F-1 overexpression increases viable cell density in batch cultures of Chinese hamster ovary cells. <i>Journal of Biotechnology</i> , <b>2008</b> , 138, 103-6	3.7	30
144	Elucidation of the CHO Super-Ome (CHO-SO) by Proteoinformatics. <i>Journal of Proteome Research</i> , <b>2015</b> , 14, 4687-703	5.6	29
143	Feast or famine: autophagy control and engineering in eukaryotic cell culture. <i>Current Opinion in Biotechnology</i> , <b>2008</b> , 19, 518-26	11.4	29
142	Integrated Genome and Protein Editing Swaps $\alpha$ ,6 Sialylation for $\alpha$ ,3 Sialic Acid on Recombinant Antibodies from CHO. <i>Biotechnology Journal</i> , <b>2017</b> , 12, 1600502	5.6	28
141	Optimization of tetracycline-responsive recombinant protein production and effect on cell growth and ER stress in mammalian cells. <i>Biotechnology and Bioengineering</i> , <b>2005</b> , 91, 722-32	4.9	27
140	Inhibiting the apoptosis pathway using MDM2 in mammalian cell cultures. <i>Biotechnology and Bioengineering</i> , <b>2007</b> , 97, 601-14	4.9	26
139	Comprehensive Glycoproteomic Analysis of Chinese Hamster Ovary Cells. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 14294-14302	7.8	26
138	Model-based analysis of N-glycosylation in Chinese hamster ovary cells. <i>PLoS ONE</i> , <b>2017</b> , 12, e0175376	3.7	25
137	Efficient lipid extraction and quantification of fatty acids from algal biomass using accelerated solvent extraction (ASE). <i>RSC Advances</i> , <b>2016</b> , 6, 29127-29134	3.7	25
136	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> , <b>2009</b> , 26, 1135-49	3	25
135	A comparison of mathematical model predictions to experimental measurements for growth and recombinant protein production in induced cultures of Escherichia coli. <i>Biotechnology and Bioengineering</i> , <b>1990</b> , 36, 124-34	4.9	25
134	High-Throughput Lipidomic and Transcriptomic Analysis To Compare SP2/0, CHO, and HEK-293 Mammalian Cell Lines. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 1477-1485	7.8	24
133	GlycoFly: a database of Drosophila N-linked glycoproteins identified using SPEP-MS techniques. <i>Journal of Proteome Research</i> , <b>2011</b> , 10, 2777-84	5.6	24
132	A bacterial signal peptidase enhances processing of a recombinant single chain antibody fragment in insect cells. <i>Biochemical and Biophysical Research Communications</i> , <b>1999</b> , 255, 444-50	3.4	24



131	Mineral and non-carbon nutrient utilization and recovery during sequential phototrophic-heterotrophic growth of lipid-rich algae. <i>Applied Microbiology and Biotechnology</i> , <b>2014</b> , 98, 5261-73	5.7	23
130	Enhanced transient recombinant protein production in CHO cells through the co-transfection of the product gene with Bcl-xL. <i>Biotechnology Journal</i> , <b>2014</b> , 9, 1164-74	5.6	23
129	N-glycan structures of human transferrin produced by <i>Lymantria dispar</i> (gypsy moth) cells using the LdMNPV expression system. <i>Glycobiology</i> , <b>2003</b> , 13, 539-48	5.8	23
128	A novel sugar analog enhances sialic acid production and biotherapeutic sialylation in CHO cells. <i>Biotechnology and Bioengineering</i> , <b>2017</b> , 114, 1899-1902	4.9	22
127	GlycoFish: a database of zebrafish N-linked glycoproteins identified using SPEG method coupled with LC/MS. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 5296-303	7.8	22
126	Beta-(1 → 4)-galactosyltransferase activity in native and engineered insect cells measured with time-resolved europium fluorescence. <i>Carbohydrate Research</i> , <b>2002</b> , 337, 2181-6	2.9	22
125	Sex Differences in Lung Imaging and SARS-CoV-2 Antibody Responses in a COVID-19 Golden Syrian Hamster Model. <i>MBio</i> , <b>2021</b> , 12, e0097421	7.8	22
124	Application of microarrays to identify and characterize genes involved in attachment dependence in HeLa cells. <i>Metabolic Engineering</i> , <b>2007</b> , 9, 241-51	9.7	21
123	Regulating apoptosis in mammalian cell cultures. <i>Cytotechnology</i> , <b>2006</b> , 50, 77-92	2.2	21
122	Production of recombinant proteins by baculovirus-infected gypsy moth cells. <i>Biotechnology Progress</i> , <b>1991</b> , 7, 462-7	2.8	21
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