

Kelvin H Lee

List of Publications by Year in descending order

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161
papers

8,205
citations

41258

49
h-index

54797

84
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169
all docs

169
docs citations

169
times ranked

8303
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	The 14-3-3 Brain Protein in Cerebrospinal Fluid as a Marker for Transmissible Spongiform Encephalopathies. <i>New England Journal of Medicine</i> , 1996, 335, 924-930.	13.9	662
3	Totally asymmetric exclusion process with extended objects: A model for protein synthesis. <i>Physical Review E</i> , 2003, 68, 021910.	0.8	312
4	Shotgun proteomics using the iTRAQ isobaric tags. <i>Briefings in Functional Genomics & Proteomics</i> , 2006, 5, 112-120.	3.8	311
5	8â€Plex quantitation of changes in cerebrospinal fluid protein expression in subjects undergoing intravenous immunoglobulin treatment for Alzheimer's disease. <i>Proteomics</i> , 2007, 7, 3651-3660.	1.3	291
6	Cerebrospinal fluid proteomic biomarkers for Alzheimer's disease. <i>Annals of Neurology</i> , 2007, 61, 120-129.	2.8	168
7	Applications of affinity chromatography in proteomics. <i>Analytical Biochemistry</i> , 2004, 324, 1-10.	1.1	165
8	Knockout of a difficultâ€toâ€remove CHO host cell protein, lipoprotein lipase, for improved polysorbate stability in monoclonal antibody formulations. <i>Biotechnology and Bioengineering</i> , 2017, 114, 1006-1015.	1.7	147
9	Identification and characterization of host cell protein productâ€associated impurities in monoclonal antibody bioprocessing. <i>Biotechnology and Bioengineering</i> , 2014, 111, 904-912.	1.7	146
10	Inverse metabolic engineering: A strategy for directed genetic engineering of useful phenotypes. , 1996, 52, 109-121.		136
11	Tuning and Predicting Mesh Size and Protein Release from Step Growth Hydrogels. <i>Biomacromolecules</i> , 2017, 18, 3131-3142.	2.6	127
12	Proteomics: a technology-driven and technology-limited discovery science. <i>Trends in Biotechnology</i> , 2001, 19, 217-222.	4.9	117
13	A comparison of the consistency of proteome quantitation using two-dimensional electrophoresis and shotgun isobaric tagging in <i>Escherichia coli</i> cells. <i>Electrophoresis</i> , 2005, 26, 2437-2449.	1.3	112
14	Local inhomogeneity in asymmetric simple exclusion processes with extended objects. <i>Journal of Physics A</i> , 2004, 37, 2105-2113.	1.6	109
15	Insights into the relation between mRNA and protein expression patterns: I. theoretical considerations. <i>Biotechnology and Bioengineering</i> , 2003, 84, 822-833.	1.7	106
16	Fabrication of 3D Biomimetic Microfluidic Networks in Hydrogels. <i>Advanced Healthcare Materials</i> , 2016, 5, 2153-2160.	3.9	101
17	Proteomic analysis. <i>Current Opinion in Biotechnology</i> , 2000, 11, 176-179.	3.3	97
18	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

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19	Proteomics: Theoretical and Experimental Considerations. <i>Biotechnology Progress</i> , 1999, 15, 312-318.	1.3	93
20	Isoelectric focusing in cyclic olefin copolymer microfluidic channels coated by polyacrylamide using a UV photografting method. <i>Electrophoresis</i> , 2005, 26, 1800-1806.	1.3	89
21	Inverse metabolic engineering: A strategy for directed genetic engineering of useful phenotypes. <i>Biotechnology and Bioengineering</i> , 2002, 79, 568-579.	1.7	88
22	Studies of potential cerebrospinal fluid molecular markers for Alzheimer's disease. <i>Electrophoresis</i> , 2002, 23, 2247.	1.3	87
23	NIST Interlaboratory Study on Glycosylation Analysis of Monoclonal Antibodies: Comparison of Results from Diverse Analytical Methods. <i>Molecular and Cellular Proteomics</i> , 2020, 19, 11-30.	2.5	87
24	A polymeric microchip with integrated tips and in situ polymerized monolith for electrospray mass spectrometry. <i>Lab on A Chip</i> , 2005, 5, 869.	3.1	86
25	Dynamical Analysis of Gene Networks Requires Both mRNA and Protein Expression Information. <i>Metabolic Engineering</i> , 1999, 1, 275-281.	3.6	85
26	The fickle CHO: a review of the causes, implications, and potential alleviation of the CHO cell line instability problem. <i>Current Opinion in Biotechnology</i> , 2019, 60, 128-137.	3.3	85
27	Expression of difficult-to-remove host cell protein impurities during extended Chinese hamster ovary cell culture and their impact on continuous bioprocessing. <i>Biotechnology and Bioengineering</i> , 2015, 112, 1232-1242.	1.7	83
28	From SNPs to functional polymorphism: The insight into biotechnology applications. <i>Biochemical Engineering Journal</i> , 2010, 49, 149-158.	1.8	81
29	A surface modification strategy on silicon nitride for developing biosensors. <i>Analytical Biochemistry</i> , 2005, 343, 322-328.	1.1	79
30	Kinetic characterization of sequencing grade modified trypsin. <i>Proteomics</i> , 2005, 5, 2319-2321.	1.3	79
31	Complement Protein Isoforms in CSF as Possible Biomarkers for Neurodegenerative Disease. <i>Disease Markers</i> , 2005, 21, 93-101.	0.6	79
32	Insights into the relation between mrna and protein expression patterns: ii. Experimental observations in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2003, 84, 834-841.	1.7	77
33	Quantitative and qualitative measure of intralaboratory two-dimensional protein gel reproducibility and the effects of sample preparation, sample load, and image analysis. <i>Electrophoresis</i> , 2003, 24, 3500-3507.	1.3	75
34	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
35	Functional genomics and proteomics as a foundation for systems biology. <i>Briefings in Functional Genomics & Proteomics</i> , 2003, 2, 175-184.	3.8	73
36	Membrane configuration optimization for a murine in vitro blood-brain barrier model. <i>Journal of Neuroscience Methods</i> , 2013, 212, 211-221.	1.3	73

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37	Minimum Transendothelial Electrical Resistance Thresholds for the Study of Small and Large Molecule Drug Transport in a Human <i>in Vitro</i> Blood-Brain Barrier Model. <i>Molecular Pharmaceutics</i> , 2016, 13, 4191-4198.	2.3	72
38	Coupling on-chip solid-phase extraction to electrospray mass spectrometry through an integrated electrospray tip. <i>Electrophoresis</i> , 2005, 26, 3622-3630.	1.3	71
39	Quantitative analysis of protein expression using amine-specific isobaric tags in <i>Escherichia coli</i> cells expressing rgsA elements. <i>Proteomics</i> , 2005, 5, 2297-2308.	1.3	70
40	Host cell protein impurities in chromatographic polishing steps for monoclonal antibody purification. <i>Biotechnology and Bioengineering</i> , 2016, 113, 1260-1272.	1.7	68
41	Recombinant cyclin E expression activates proliferation and obviates surface attachment of chinese hamster ovary (CHO) cells in protein-free medium. <i>Biotechnology and Bioengineering</i> , 1995, 47, 476-482.	1.7	67
42	Genomics and proteomics in process development: opportunities and challenges. <i>Trends in Biotechnology</i> , 2007, 25, 324-330.	4.9	65
43	Mean-field approaches to the totally asymmetric exclusion process with quenched disorder and large particles. <i>Physical Review E</i> , 2004, 70, 021901.	0.8	64
44	Murine <i>in vitro</i> model of the blood-brain barrier for evaluating drug transport. <i>European Journal of Pharmaceutical Sciences</i> , 2011, 42, 148-155.	1.9	64
45	Photoelectrochemical reforming of glucose for hydrogen production using a WO ₃ -based tandem cell device. <i>Energy and Environmental Science</i> , 2012, 5, 9091.	15.6	63
46	Genomic analysis. <i>Current Opinion in Biotechnology</i> , 2000, 11, 171-175.	3.3	62
47	Towards two-dimensional electrophoresis mapping of the cerebrospinal fluid proteome from a single individual. <i>Electrophoresis</i> , 2004, 25, 2564-2575.	1.3	59
48	Apolipoprotein E and other cerebrospinal fluid proteins differentiate ante mortem variant Creutzfeldt-Jakob disease from ante mortem sporadic Creutzfeldt-Jakob disease. <i>Electrophoresis</i> , 2002, 23, 2242.	1.3	54
49	Genomics in mammalian cell culture bioprocessing. <i>Biotechnology Advances</i> , 2012, 30, 629-638.	6.0	53
50	Applications of proteomic methods for CHO host cell protein characterization in biopharmaceutical manufacturing. <i>Current Opinion in Biotechnology</i> , 2018, 53, 144-150.	3.3	52
51	A two-dimensional electrophoresis map of Chinese hamster ovary cell proteins based on fluorescence staining. <i>Electrophoresis</i> , 2004, 25, 2545-2556.	1.3	50
52	An introduction to mass spectrometry applications in biological research. <i>Biochemistry and Molecular Biology Education</i> , 2004, 32, 93-100.	0.5	48
53	Recovery of Chinese hamster ovary host cell proteins for proteomic analysis. <i>Biotechnology Journal</i> , 2014, 9, 87-99.	1.8	47
54	Effects of copper on CHO cells: Insights from gene expression analyses. <i>Biotechnology Progress</i> , 2014, 30, 429-442.	1.3	47

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55	Site-specific integration ushers in a new era of precise CHO cell line engineering. <i>Current Opinion in Chemical Engineering</i> , 2018, 22, 152-160.	3.8	46
56	Cytochalasin D can improve heterologous protein productivity in adherent Chinese hamster ovary cells. <i>Biotechnology and Bioengineering</i> , 2005, 90, 354-364.	1.7	45
57	Targeted human cerebrospinal fluid proteomics for the validation of multiple Alzheimer's disease biomarker candidates. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013, 930, 129-135.	1.2	45
58	Deregulated expression of cloned transcription factor E2F-1 in Chinese hamster ovary cells shifts protein patterns and activates growth in protein-free medium. , 1996, 50, 273-279.		43
59	<i>Escherichia coli</i> ?a model system that benefits from and contributes to the evolution of proteomics. <i>Biotechnology and Bioengineering</i> , 2003, 84, 801-814.	1.7	42
60	The many paths to frameshifting: kinetic modelling and analysis of the effects of different elongation steps on programmed â€“1 ribosomal frameshifting. <i>Nucleic Acids Research</i> , 2011, 39, 300-312.	6.5	42
61	A comparison of three commercially available isoelectric focusing units for proteome analysis: The Multiphor, the IPCphor and the Protean IEF cell. <i>Electrophoresis</i> , 2000, 21, 993-1000.	1.3	41
62	Comparison of automated in-gel digest methods for femtomole level samples. <i>Electrophoresis</i> , 2003, 24, 3508-3516.	1.3	41
63	A differentiating neural stem cell-derived astrocytic population mitigates the inflammatory effects of TNF-Î± and IL-6 in an iPSC-based blood-brain barrier model. <i>Neurobiology of Disease</i> , 2018, 119, 113-120.	2.1	40
64	Liver Toxicity Encountered in the Veterans Administration Trial of Disulfiram in Alcoholics. <i>Alcoholism: Clinical and Experimental Research</i> , 1987, 11, 301-304.	1.4	38
65	Antibody transcytosis across brain endothelial-like cells occurs nonspecifically and independent of FcRn. <i>Scientific Reports</i> , 2020, 10, 3685.	1.6	38
66	Proteomic assessment of a cell model of spinal muscular atrophy. <i>BMC Neuroscience</i> , 2011, 12, 25.	0.8	37
67	Genomic sequencing and analysis of a Chinese hamster ovary cell line using Illumina sequencing technology. <i>BMC Genomics</i> , 2011, 12, 67.	1.2	37
68	Serine Phosphorylation Is Critical for the Activation of Ubiquitin-Specific Protease 1 and Its Interaction with WD40-Repeat Protein UAF1. <i>Biochemistry</i> , 2012, 51, 9112-9123.	1.2	37
69	Profiling conserved microRNA expression in recombinant CHO cell lines using illumina sequencing. <i>Biotechnology and Bioengineering</i> , 2012, 109, 1371-1375.	1.7	37
70	Affinity depletion of albumin from human cerebrospinal fluid using Cibacron-blue-3G-A-derivatized photopatterned copolymer in a microfluidic device. <i>Analytical Biochemistry</i> , 2004, 333, 381-388.	1.1	36
71	A framework to quantify karyotype variation associated with CHO cell line instability at a singleâ€“cell level. <i>Biotechnology and Bioengineering</i> , 2017, 114, 1045-1053.	1.7	36
72	Proteomic Analysis of Cerebrospinal Fluid Changes Related to Postmortem Interval. <i>Clinical Chemistry</i> , 2006, 52, 1906-1913.	1.5	35

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73	The phospholipase complex PAFAH 1b regulates the functional organization of the Golgi complex. <i>Journal of Cell Biology</i> , 2010, 190, 45-53.	2.3	32
74	A new kinetic model reveals the synergistic effect of E-, P- and A-sites on +1 ribosomal frameshifting. <i>Nucleic Acids Research</i> , 2008, 36, 2619-2629.	6.5	31
75	<i>Phragmites australis</i> root secreted phytotoxin undergoes photo-degradation to execute severe phytotoxicity. <i>Plant Signaling and Behavior</i> , 2009, 4, 506-513.	1.2	31
76	Complex and extensive post-transcriptional regulation revealed by integrative proteomic and transcriptomic analysis of metabolite stress response in <i>Clostridium acetobutylicum</i> . <i>Biotechnology for Biofuels</i> , 2015, 8, 81.	6.2	31
77	Optimization of endothelial cell growth in a murine in vitro blood-brain barrier model. <i>Biotechnology Journal</i> , 2012, 7, 409-417.	1.8	30
78	Chromosome-scale scaffolds for the Chinese hamster reference genome assembly to facilitate the study of the CHO epigenome. <i>Biotechnology and Bioengineering</i> , 2020, 117, 2331-2339.	1.7	30
79	Engineering HlyA hypersecretion in <i>Escherichia coli</i> based on proteomic and microarray analyses. <i>Biotechnology and Bioengineering</i> , 2005, 89, 195-205.	1.7	29
80	iTRAQpak: an R based analysis and visualization package for 8-plex isobaric protein expression data. <i>Briefings in Functional Genomics & Proteomics</i> , 2008, 7, 127-135.	3.8	28
81	CHOgenome.org 2.0: Genome resources and website updates. <i>Biotechnology Journal</i> , 2015, 10, 931-938.	1.8	28
82	End-to-end collaboration to transform biopharmaceutical development and manufacturing. <i>Biotechnology and Bioengineering</i> , 2021, 118, 3302-3312.	1.7	28
83	Two-dimensional electrophoresis of proteins as a tool in the metabolic engineering of cell cycle regulation. , 1996, 50, 336-340.		27
84	Glyco-Mapper: A Chinese hamster ovary (CHO) genome-specific glycosylation prediction tool. <i>Metabolic Engineering</i> , 2018, 47, 134-142.	3.6	25
85	The scaled volume as an image analysis variable for detecting changes in protein expression levels by silver stain. <i>Electrophoresis</i> , 2001, 22, 1627-1632.	1.3	24
86	Isolation and Identification of Proteins Secreted by Cells Cultured within Synthetic Hydrogel-Based Matrices. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 836-845.	2.6	22
87	Premortem diagnosis of Creutzfeldt-Jakob disease by cerebrospinal fluid analysis. <i>Lancet</i> , The, 1996, 348, 887.	6.3	20
88	Recent cerebrospinal fluid biomarker studies of Alzheimer's disease. <i>Expert Review of Proteomics</i> , 2010, 7, 919-929.	1.3	20
89	RNA interference of cofilin in Chinese hamster ovary cells improves recombinant protein productivity. <i>Biotechnology and Bioengineering</i> , 2012, 109, 528-535.	1.7	20
90	Workflow for quantitative proteomic analysis of <i>Clostridium acetobutylicum</i> ATCC 824 using iTRAQ tags. <i>Methods</i> , 2013, 61, 269-276.	1.9	19

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91	Systematic identification of safe harbor regions in the CHO genome through a comprehensive epigenome analysis. <i>Biotechnology and Bioengineering</i> , 2021, 118, 659-675.	1.7	19
92	Biopharmaceutical Manufacturing: Historical Perspectives and Future Directions. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2022, 13, 141-165.	3.3	19
93	A mathematical model for the G1/S transition of the mammalian cell cycle. <i>Biotechnology Letters</i> , 1995, 17, 669-674.	1.1	18
94	Proteome analysis of factor for inversion stimulation (Fis) overproduction in <i>Escherichia coli</i> . <i>Electrophoresis</i> , 1999, 20, 798-805.	1.3	17
95	Fed-batch production of d-ribose from sugar mixtures by transketolase-deficient <i>Bacillus subtilis</i> SPK1. <i>Applied Microbiology and Biotechnology</i> , 2004, 66, 297-302.	1.7	17
96	Optimization of protein sample preparation for two-dimensional electrophoresis. <i>Electrophoresis</i> , 2012, 33, 1947-1957.	1.3	17
97	Growth Rate Changes in CHO Host Cells Are Associated with Karyotypic Heterogeneity. <i>Biotechnology Journal</i> , 2018, 13, e1700230.	1.8	17
98	Sponge-like electrophoresis media: Mechanically strong materials compatible with organic solvents, polymer solutions and two-dimensional electrophoresis. <i>Electrophoresis</i> , 1994, 15, 187-194.	1.3	16
99	Immunoglobulin transport increases in an in vitro blood-brain barrier model with amyloid β^2 and with neuroinflammatory cytokines. <i>Biotechnology and Bioengineering</i> , 2019, 116, 1752-1761.	1.7	16
100	Two-dimensional protein electrophoresis: From molecular pathway discovery to biomarker discovery in neurological disorders. <i>NeuroRx</i> , 2006, 3, 327-335.	6.0	15
101	The assay development of a molecular marker for transmissible spongiform encephalopathies. <i>Electrophoresis</i> , 1997, 18, 502-506.	1.3	14
102	PERIODIC-TIMELESS Interval Timer May Require an Additional Feedback Loop. <i>PLoS Computational Biology</i> , 2007, 3, e154.	1.5	14
103	CHO Cells Can Make More Protein. <i>Cell Systems</i> , 2016, 3, 412-413.	2.9	14
104	Analytical methods to characterize recombinant adeno-associated virus vectors and the benefit of standardization and reference materials. <i>Current Opinion in Biotechnology</i> , 2021, 71, 65-76.	3.3	14
105	FSscan: a mechanism-based program to identify +1 ribosomal frameshift hotspots. <i>Nucleic Acids Research</i> , 2009, 37, 7302-7311.	6.5	13
106	A rapid, inexpensive yeast-based dual-fluorescence assay of programmed +1 ribosomal frameshifting for high-throughput screening. <i>Nucleic Acids Research</i> , 2011, 39, e97-e97.	6.5	13
107	Longitudinal analysis of novel Alzheimer's disease proteomic cerebrospinal fluid biomarkers during intravenous immunoglobulin therapy. <i>Electrophoresis</i> , 2012, 33, 1975-1979.	1.3	13
108	On-chip coupling of electrochemical pumps and an SU-8 tip for electrospray ionization mass spectrometry. <i>Biomedical Microdevices</i> , 2008, 10, 891-897.	1.4	12

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109	Silent mutations result in HlyA hypersecretion by reducing intracellular HlyA protein aggregates. <i>Biotechnology and Bioengineering</i> , 2008, 101, 967-974.	1.7	12
110	Identification of the phosphorylation sites in the survival motor neuron protein by protein kinase A. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011, 1814, 1134-1139.	1.1	12
111	Overexpression of Cloned <i>RhsA</i> Sequences Perturbs the Cellular Translational Machinery in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2011, 193, 4869-4880.	1.0	12
112	Improved protease digestion conditions for membrane protein detection. <i>Electrophoresis</i> , 2015, 36, 1690-1698.	1.3	12
113	Cyberbiosecurity for Biopharmaceutical Products. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 116.	2.0	12
114	Affinity separations using microfabricated microfluidic devices: In situ photopolymerization and use in protein separations. <i>Biotechnology and Bioprocess Engineering</i> , 2003, 8, 240-245.	1.4	11
115	Protein extraction and pI of water- and lipid-soluble proteins from bovine pericardium, a low-cellularity tissue. <i>Electrophoresis</i> , 2008, 29, 4508-4515.	1.3	11
116	Synthesis and Characterization of High-Throughput Nanofabricated Poly(4-Hydroxy Styrene) Membranes for <i>In Vitro</i> Models of Barrier Tissue. <i>Tissue Engineering - Part C: Methods</i> , 2012, 18, 667-676.	1.1	11
117	Next-generation sequencing technologies and their potential impact on CHO cell-based biomanufacturing. <i>Pharmaceutical Bioprocessing</i> , 2013, 1, 455-465.	0.8	11
118	Restoration of DNA repair mitigates genome instability and increases productivity of Chinese hamster ovary cells. <i>Biotechnology and Bioengineering</i> , 2022, 119, 963-982.	1.7	11
119	Analysis of host-induced response in the rice blast fungus <i>Magnaporthe grisea</i> using two-dimensional polyacrylamide gel electrophoresis. <i>Electrophoresis</i> , 1997, 18, 163-169.	1.3	10
120	Toward product attribute control: developments from genome sequencing. <i>Current Opinion in Biotechnology</i> , 2014, 30, 40-44.	3.3	9
121	Alzheimer's disease cerebrospinal fluid biomarker discovery: a proteomics approach. <i>Current Opinion in Molecular Therapeutics</i> , 2005, 7, 557-64.	2.8	8
122	The effect of astrocytes on the induction of barrier properties in aortic endothelial cells. <i>Biotechnology Progress</i> , 2011, 27, 1137-1145.	1.3	7
123	Identification of Fibulin-1 as a Human Bone Marrow Stromal (HSC) Cell-Derived Factor That Induces Human Prostate Cancer Cell Death. <i>Prostate</i> , 2017, 77, 729-742.	1.2	7
124	Modeling the Effect of Amino Acids and Copper on Monoclonal Antibody Productivity and Glycosylation: A Modular Approach. <i>Biotechnology Journal</i> , 2021, 16, e2000261.	1.8	7
125	Reply: Cerebrospinal fluid proteomics for biomarkers of Alzheimer's disease. <i>Annals of Neurology</i> , 2007, 61, 497-498.	2.8	6
126	miRNA Expression in CHO: Nature knows best. <i>Biotechnology Journal</i> , 2014, 9, 459-460.	1.8	6

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127	Multiple reaction monitoring assay based on conventional liquid chromatography and electrospray ionization for simultaneous monitoring of multiple cerebrospinal fluid biomarker candidates for Alzheimer's disease. Archives of Pharmacal Research, 2016, 39, 390-397.	2.7	6
128	Bioinformatic analysis of Chinese hamster ovary host cell protein lipases. AICHE Journal, 2018, 64, 4247-4254.	1.8	6
129	A Site-Specific Integration Reporter System That Enables Rapid Evaluation of CRISPR/Cas9-Mediated Genome Editing Strategies in CHO Cells. Biotechnology Journal, 2020, 15, e2000057.	1.8	6
130	Improved understanding of gene expression regulation using systems biology. Expert Review of Proteomics, 2005, 2, 915-924.	1.3	5
131	Proteome analysis of recombinant Escherichia coli producing human glucagon-like peptide-1. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 849, 323-330.	1.2	5
132	The evolving engineer. AICHE Journal, 2014, 60, 1956-1963.	1.8	5
133	Sequencing technologies for animal cell culture research. Biotechnology Letters, 2015, 37, 55-65.	1.1	5
134	Efflux Pump Substrates Shuttled to Cytosolic or Vesicular Compartments Exhibit Different Permeability in a Quantitative Human Blood-Brain Barrier Model. Molecular Pharmaceutics, 2018, 15, 5081-5088.	2.3	5
135	Adsorptive-Mediated Endocytosis of Sulfo-Cy5-Labeled IgG Causes Aberrant IgG Processing by Brain Endothelial-Like Cells. Molecular Pharmaceutics, 2020, 17, 4280-4285.	2.3	5
136	k-mer-Based Metagenomics Tools Provide a Fast and Sensitive Approach for the Detection of Viral Contaminants in Biopharmaceutical and Vaccine Manufacturing Applications Using Next-Generation Sequencing. MSphere, 2021, 6, .	1.3	5
137	Comprehensive assessment of host cell protein expression after extended culture and bioreactor production of CHO cell lines. Biotechnology and Bioengineering, 2022, 119, 2221-2238.	1.7	5
138	Proteomics: An exciting new science, but where are the chemical engineers?. AICHE Journal, 2003, 49, 2682-2686.	1.8	4
139	PID controls: the forgotten bioprocess parameters. Discover Chemical Engineering, 2022, 2, 1.	1.1	4
140	Amyloid β concentration and structure influences the transport and immunomodulatory effects of IVIG. Journal of Neurochemistry, 2014, 130, 136-144.	2.1	3
141	Longitudinal effects of intravenous immunoglobulin on Alzheimer's cerebrospinal fluid proteome. Electrophoresis, 2014, 35, 1821-1827.	1.3	3
142	Mechanisms of precipitate formation during the purification of an Fc-fusion protein. Biotechnology and Bioengineering, 2018, 115, 2489-2503.	1.7	3
143	DNA Double-Strand Breaks Affect Chromosomal Rearrangements during Methotrexate-Mediated Gene Amplification in Chinese Hamster Ovary Cells. Pharmaceutics, 2021, 13, 376.	2.0	3
144	Proteomic and physiological experiments to test Thermotoga neapolitana constraint-based model hypotheses of carbon source utilization. Biotechnology Progress, 2012, 28, 312-318.	1.3	2

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145	Editorial overview: Nanobiotechnology. <i>Current Opinion in Biotechnology</i> , 2014, 28, iv-v.	3.3	2
146	Special Focus: An omics approach to Chinese hamster ovary based pharmaceutical bioprocessing. <i>Pharmaceutical Bioprocessing</i> , 2014, 2, 351-353.	0.8	2
147	Toward improved host cell protein impurity assessment. <i>Biotechnology Journal</i> , 2016, 11, 998-999.	1.8	2
148	<i>Chlorobaculum tepidum</i> Modulates Amino Acid Composition in Response to Energy Availability, as Revealed by a Systematic Exploration of the Energy Landscape of Phototrophic Sulfur Oxidation. <i>Applied and Environmental Microbiology</i> , 2016, 82, 6431-6439.	1.4	2
149	Creation of monoclonal antibody expressing CHO cell lines grown with sodium butyrate and characterization of resulting antibody glycosylation. <i>Methods in Enzymology</i> , 2021, 660, 267-295.	0.4	2
150	Method to transfer Chinese hamster ovary (CHO) batch shake flask experiments to large-scale, computer-controlled fed-batch bioreactors. <i>Methods in Enzymology</i> , 2021, 660, 297-320.	0.4	2
151	EvalDNA: a machine learning-based tool for the comprehensive evaluation of mammalian genome assembly quality. <i>BMC Bioinformatics</i> , 2021, 22, 570.	1.2	2
152	Characterization of Monoclonal Antibody Glycan Heterogeneity Using Hydrophilic Interaction Liquid Chromatography-Mass Spectrometry. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 805788.	2.0	2
153	Jay Bailey as mentor?The students' perspective. <i>Biotechnology and Bioengineering</i> , 2002, 79, 484-489.	1.7	1
154	Biomimetic Microfluidic Networks: Fabrication of 3D Biomimetic Microfluidic Networks in Hydrogels (<i>Adv. Healthcare Mater.</i> 17/2016). <i>Advanced Healthcare Materials</i> , 2016, 5, 2152-2152.	3.9	1
155	Summary from Advanced Manufacturing Technology Workshop Held at 6th Accelerating Biopharmaceutical Development Meeting. <i>PDA Journal of Pharmaceutical Science and Technology</i> , 2021, 75, 48-63.	0.3	1
156	Double-Label Analysis. , 1999, 112, 291-296.		0
157	Editorial: Electrophoresis 14/2002. <i>Electrophoresis</i> , 2002, 23, 2147.	1.3	0
158	A single nucleotide polymorphism in <i>ydcC</i> alters tRNA synthetase expression and results in hypersecretion in <i>Escherichia coli</i> . <i>Biotechnology Progress</i> , 2012, 28, 646-653.	1.3	0
159	Advances in Cardiovascular Care. <i>JACC Basic To Translational Science</i> , 2018, 3, 114-118.	1.9	0
160	Back Cover Image, Volume 118, Number 2, February 2021. <i>Biotechnology and Bioengineering</i> , 2021, 118, iv.	1.7	0
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