

Kelvin H Lee

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7616274/publications.pdf>

Version: 2024-02-01

161
papers

8,205
citations

41258

49
h-index

54797

84
g-index

169
all docs

169
docs citations

169
times ranked

8303
citing authors

#	ARTICLE	IF	CITATIONS
1	PID controls: the forgotten bioprocess parameters. Discover Chemical Engineering, 2022, 2, 1.	1.1	4
2	Restoration of DNA repair mitigates genome instability and increases productivity of Chinese hamster ovary cells. Biotechnology and Bioengineering, 2022, 119, 963-982.	1.7	11
3	Biopharmaceutical Manufacturing: Historical Perspectives and Future Directions. Annual Review of Chemical and Biomolecular Engineering, 2022, 13, 141-165.	3.3	19
4	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
5	Systematic identification of safe harbor regions in the CHO genome through a comprehensive epigenome analysis. Biotechnology and Bioengineering, 2021, 118, 659-675.	1.7	19
6	Modeling the Effect of Amino Acids and Copper on Monoclonal Antibody Productivity and Glycosylation: A Modular Approach. Biotechnology Journal, 2021, 16, e2000261.	1.8	7
7	End-to-end collaboration to transform biopharmaceutical development and manufacturing. Biotechnology and Bioengineering, 2021, 118, 3302-3312.	1.7	28
8	DNA Double-Strand Breaks Affect Chromosomal Rearrangements during Methotrexate-Mediated Gene Amplification in Chinese Hamster Ovary Cells. Pharmaceutics, 2021, 13, 376.	2.0	3
9	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
10	Analytical methods to characterize recombinant adeno-associated virus vectors and the benefit of standardization and reference materials. Current Opinion in Biotechnology, 2021, 71, 65-76.	3.3	14
11	Back Cover Image, Volume 118, Number 2, February 2021. Biotechnology and Bioengineering, 2021, 118, iv.	1.7	0
12	Summary from Advanced Manufacturing Technology Workshop Held at 6th Accelerating Biopharmaceutical Development Meeting. PDA Journal of Pharmaceutical Science and Technology, 2021, 75, 48-63.	0.3	1
13	Creation of monoclonal antibody expressing CHO cell lines grown with sodium butyrate and characterization of resulting antibody glycosylation. Methods in Enzymology, 2021, 660, 267-295.	0.4	2
14	Method to transfer Chinese hamster ovary (CHO) batch shake flask experiments to large-scale, computer-controlled fed-batch bioreactors. Methods in Enzymology, 2021, 660, 297-320.	0.4	2
15	EvalDNA: a machine learning-based tool for the comprehensive evaluation of mammalian genome assembly quality. BMC Bioinformatics, 2021, 22, 570.	1.2	2
16	Characterization of Monoclonal Antibody Glycan Heterogeneity Using Hydrophilic Interaction Liquid Chromatography-Mass Spectrometry. Frontiers in Bioengineering and Biotechnology, 2021, 9, 805788.	2.0	2
17	NIST Interlaboratory Study on Glycosylation Analysis of Monoclonal Antibodies: Comparison of Results from Diverse Analytical Methods. Molecular and Cellular Proteomics, 2020, 19, 11-30.	2.5	87
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	A Site-Specific Integration Reporter System That Enables Rapid Evaluation of CRISPR/Cas9-Mediated Genome Editing Strategies in CHO Cells. <i>Biotechnology Journal</i> , 2020, 15, e2000057.	1.8	6
21	Antibody transcytosis across brain endothelial-like cells occurs nonspecifically and independent of FcRn. <i>Scientific Reports</i> , 2020, 10, 3685.	1.6	38
22	Cyberbiosecurity for Biopharmaceutical Products. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 116.	2.0	12
23	Immunoglobulin G 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
24	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
25	Glyco-Mapper: A Chinese hamster ovary (CHO) genome-specific glycosylation prediction tool. <i>Metabolic Engineering</i> , 2018, 47, 134-142.	3.6	25
26	Advances in Cardiovascular Care. <i>JACC Basic To Translational Science</i> , 2018, 3, 114-118.	1.9	0
27	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
28	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
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	Growth Rate Changes in CHO Host Cells Are Associated with Karyotypic Heterogeneity. <i>Biotechnology Journal</i> , 2018, 13, e1700230.	1.8	17
31	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
32	Efflux Pump Substrates Shuttled to Cytosolic or Vesicular Compartments Exhibit Different Permeability in a Quantitative Human Blood-Brain Barrier Model. <i>Molecular Pharmaceutics</i> , 2018, 15, 5081-5088.	2.3	5
33	Bioinformatic analysis of Chinese hamster ovary host cell protein lipases. <i>AIChE Journal</i> , 2018, 64, 4247-4254.	1.8	6
34	A differentiating neural stem cell-derived astrocytic population mitigates the inflammatory effects of TNF- α and IL-6 in an iPSC-based blood-brain barrier model. <i>Neurobiology of Disease</i> , 2018, 119, 113-120.	2.1	40
35	Mechanisms of precipitate formation during the purification of an Fc-fusion protein. <i>Biotechnology and Bioengineering</i> , 2018, 115, 2489-2503.	1.7	3
36	Identification of Fibulin-1 as a Human Bone Marrow Stromal (HS) Cell-Derived Factor That Induces Human Prostate Cancer Cell Death. <i>Prostate</i> , 2017, 77, 729-742.	1.2	7

#	ARTICLE	IF	CITATIONS
37	A framework to quantify karyotype variation associated with CHO cell line instability at a single cell level. <i>Biotechnology and Bioengineering</i> , 2017, 114, 1045-1053.	1.7	36
38	Knockout of a difficult to 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
39	Tuning and Predicting Mesh Size and Protein Release from Step Growth Hydrogels. <i>Biomacromolecules</i> , 2017, 18, 3131-3142.	2.6	127
40	Toward improved host cell protein impurity assessment. <i>Biotechnology Journal</i> , 2016, 11, 998-999.	1.8	2
41	Fabrication of 3D Biomimetic Microfluidic Networks in Hydrogels. <i>Advanced Healthcare Materials</i> , 2016, 5, 2153-2160.	3.9	101
42	CHO Cells Can Make More Protein. <i>Cell Systems</i> , 2016, 3, 412-413.	2.9	14
43	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
44	<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
45	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
46	Host cell protein impurities in chromatographic polishing steps for monoclonal antibody purification. <i>Biotechnology and Bioengineering</i> , 2016, 113, 1260-1272.	1.7	68
47	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. <i>Archives of Pharmacal Research</i> , 2016, 39, 390-397.	2.7	6
48	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
49	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
50	CHOgenome.org 2.0: Genome resources and website updates. <i>Biotechnology Journal</i> , 2015, 10, 931-938.	1.8	28
51	Improved protease digestion conditions for membrane protein detection. <i>Electrophoresis</i> , 2015, 36, 1690-1698.	1.3	12
52	Sequencing technologies for animal cell culture research. <i>Biotechnology Letters</i> , 2015, 37, 55-65.	1.1	5
53	Editorial overview: Nanobiotechnology. <i>Current Opinion in Biotechnology</i> , 2014, 28, iv-v.	3.3	2
54	Special Focus: An omics approach to Chinese hamster ovary based pharmaceutical bioprocessing. <i>Pharmaceutical Bioprocessing</i> , 2014, 2, 351-353.	0.8	2

#	ARTICLE	IF	CITATIONS
55	Amyloid β concentration and structure influences the transport and immunomodulatory effects of α IVIG. Journal of Neurochemistry, 2014, 130, 136-144.	2.1	3
56	Longitudinal effects of intravenous immunoglobulin on Alzheimer's cerebrospinal fluid proteome. Electrophoresis, 2014, 35, 1821-1827.	1.3	3
57	Identification and characterization of host cell protein product-associated impurities in monoclonal antibody bioprocessing. Biotechnology and Bioengineering, 2014, 111, 904-912.	1.7	146
58	The evolving engineer. AIChE Journal, 2014, 60, 1956-1963.	1.8	5
59	Recovery of Chinese hamster ovary host cell proteins for proteomic analysis. Biotechnology Journal, 2014, 9, 87-99.	1.8	47
60	Effects of copper on CHO cells: Insights from gene expression analyses. Biotechnology Progress, 2014, 30, 429-442.	1.3	47
61	miRNA Expression in CHO: Nature knows best. Biotechnology Journal, 2014, 9, 459-460.	1.8	6
62	Toward product attribute control: developments from genome sequencing. Current Opinion in Biotechnology, 2014, 30, 40-44.	3.3	9
63	Membrane configuration optimization for a murine in vitro blood-brain barrier model. Journal of Neuroscience Methods, 2013, 212, 211-221.	1.3	73
64	Workflow for quantitative proteomic analysis of Clostridium acetobutylicum ATCC 824 using iTRAQ tags. Methods, 2013, 61, 269-276.	1.9	19
65	Targeted human cerebrospinal fluid proteomics for the validation of multiple Alzheimer's disease biomarker candidates. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2013, 930, 129-135.	1.2	45
66	Next-generation sequencing technologies and their potential impact on CHO cell-based biomanufacturing. Pharmaceutical Bioprocessing, 2013, 1, 455-465.	0.8	11
67	Photoelectrochemical reforming of glucose for hydrogen production using a WO ₃ -based tandem cell device. Energy and Environmental Science, 2012, 5, 9091.	15.6	63
68	Synthesis and Characterization of High-Throughput Nanofabricated Poly(4-Hydroxy Styrene) Membranes for In Vitro Models of Barrier Tissue. Tissue Engineering - Part C: Methods, 2012, 18, 667-676.	1.1	11
69	Serine Phosphorylation Is Critical for the Activation of Ubiquitin-Specific Protease 1 and Its Interaction with WD40-Repeat Protein UAF1. Biochemistry, 2012, 51, 9112-9123.	1.2	37
70	Optimization of protein sample preparation for two-dimensional electrophoresis. Electrophoresis, 2012, 33, 1947-1957.	1.3	17
71	Longitudinal analysis of novel Alzheimer's disease proteomic cerebrospinal fluid biomarkers during intravenous immunoglobulin therapy. Electrophoresis, 2012, 33, 1975-1979.	1.3	13
72	Optimization of endothelial cell growth in a murine in vitro blood-brain barrier model. Biotechnology Journal, 2012, 7, 409-417.	1.8	30

#	ARTICLE	IF	CITATIONS
73	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
74	Profiling conserved microRNA expression in recombinant CHO cell lines using illumina sequencing. <i>Biotechnology and Bioengineering</i> , 2012, 109, 1371-1375.	1.7	37
75	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
76	Proteomic and physiological experiments to test <i>Thermotoga neapolitana</i> constraint-based model hypotheses of carbon source utilization. <i>Biotechnology Progress</i> , 2012, 28, 312-318.	1.3	2
77	Genomics in mammalian cell culture bioprocessing. <i>Biotechnology Advances</i> , 2012, 30, 629-638.	6.0	53
78	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
79	The genomic sequence of the Chinese hamster ovary (CHO)-K1 cell line. <i>Nature Biotechnology</i> , 2011, 29, 735-741.	9.4	699
80	Murine in vitro model of the blood-brain barrier for evaluating drug transport. <i>European Journal of Pharmaceutical Sciences</i> , 2011, 42, 148-155.	1.9	64
81	Proteomic assessment of a cell model of spinal muscular atrophy. <i>BMC Neuroscience</i> , 2011, 12, 25.	0.8	37
82	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
83	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
84	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
85	The many paths to frameshifting: kinetic modelling and analysis of the effects of different elongation steps on programmed +1 ribosomal frameshifting. <i>Nucleic Acids Research</i> , 2011, 39, 300-312.	6.5	42
86	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
87	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
88	Recent cerebrospinal fluid biomarker studies of Alzheimer's disease. <i>Expert Review of Proteomics</i> , 2010, 7, 919-929.	1.3	20
89	From SNPs to functional polymorphism: The insight into biotechnology applications. <i>Biochemical Engineering Journal</i> , 2010, 49, 149-158.	1.8	81
90	The phospholipase complex PAFAH1b regulates the functional organization of the Golgi complex. <i>Journal of Cell Biology</i> , 2010, 190, 45-53.	2.3	32

#	ARTICLE	IF	CITATIONS
91	<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
92	FSscan: a mechanism-based program to identify +1 ribosomal frameshift hotspots. <i>Nucleic Acids Research</i> , 2009, 37, 7302-7311.	6.5	13
93	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
94	Protein extraction and 2D-E of water and lipid soluble proteins from bovine pericardium, a low cellularity tissue. <i>Electrophoresis</i> , 2008, 29, 4508-4515.	1.3	11
95	Silent mutations result in HlyA hypersecretion by reducing intracellular HlyA protein aggregates. <i>Biotechnology and Bioengineering</i> , 2008, 101, 967-974.	1.7	12
96	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
97	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
98	PERIODâ€‘TIMELESS Interval Timer May Require an Additional Feedback Loop. <i>PLoS Computational Biology</i> , 2007, 3, e154.	1.5	14
99	Cerebrospinal fluid proteomic biomarkers for Alzheimer's disease. <i>Annals of Neurology</i> , 2007, 61, 120-129.	2.8	168
100	Reply: Cerebrospinal fluid proteomics for biomarkers of Alzheimer's disease. <i>Annals of Neurology</i> , 2007, 61, 497-498.	2.8	6
101	Proteome analysis of recombinant <i>Escherichia coli</i> producing human glucagon-like peptide-1. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 849, 323-330.	1.2	5
102	8-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
103	Genomics and proteomics in process development: opportunities and challenges. <i>Trends in Biotechnology</i> , 2007, 25, 324-330.	4.9	65
104	Shotgun proteomics using the iTRAQ isobaric tags. <i>Briefings in Functional Genomics & Proteomics</i> , 2006, 5, 112-120.	3.8	311
105	Two-dimensional protein electrophoresis: From molecular pathway discovery to biomarker discovery in neurological disorders. <i>NeuroRx</i> , 2006, 3, 327-335.	6.0	15
106	Proteomic Analysis of Cerebrospinal Fluid Changes Related to Postmortem Interval. <i>Clinical Chemistry</i> , 2006, 52, 1906-1913.	1.5	35
107	Two-dimensional protein electrophoresis: From molecular pathway discovery to biomarker discovery in neurological disorders. <i>Neurotherapeutics</i> , 2006, 3, 327-335.	2.1	0
108	A surface modification strategy on silicon nitride for developing biosensors. <i>Analytical Biochemistry</i> , 2005, 343, 322-328.	1.1	79

#	ARTICLE	IF	CITATIONS
109	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
110	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
111	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
112	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
113	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
114	Quantitative analysis of protein expression using amine-specific isobaric tags in <i>Escherichia coli</i> cells expressing rhsA elements. <i>Proteomics</i> , 2005, 5, 2297-2308.	1.3	70
115	Kinetic characterization of sequencing grade modified trypsin. <i>Proteomics</i> , 2005, 5, 2319-2321.	1.3	79
116	Complement Protein Isoforms in CSF as Possible Biomarkers for Neurodegenerative Disease. <i>Disease Markers</i> , 2005, 21, 93-101.	0.6	79
117	Improved understanding of gene expression regulation using systems biology. <i>Expert Review of Proteomics</i> , 2005, 2, 915-924.	1.3	5
118	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
119	Alzheimer's disease cerebrospinal fluid biomarker discovery: a proteomics approach. <i>Current Opinion in Molecular Therapeutics</i> , 2005, 7, 557-64.	2.8	8
120	Local inhomogeneity in asymmetric simple exclusion processes with extended objects. <i>Journal of Physics A</i> , 2004, 37, 2105-2113.	1.6	109
121	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
122	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
123	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
124	An introduction to mass spectrometry applications in biological research. <i>Biochemistry and Molecular Biology Education</i> , 2004, 32, 93-100.	0.5	48
125	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
126	Towards two-dimensional electrophoresis mapping of the cerebrospinal fluid proteome from a single individual. <i>Electrophoresis</i> , 2004, 25, 2564-2575.	1.3	59

#	ARTICLE	IF	CITATIONS
127	Applications of affinity chromatography in proteomics. <i>Analytical Biochemistry</i> , 2004, 324, 1-10.	1.1	165
128	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
129	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
130	Comparison of automated in-gel digest methods for femtomole level samples. <i>Electrophoresis</i> , 2003, 24, 3508-3516.	1.3	41
131	Proteomics: An exciting new science, but where are the chemical engineers?. <i>AIChE Journal</i> , 2003, 49, 2682-2686.	1.8	4
132	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
133	<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
134	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
135	Functional genomics and proteomics as a foundation for systems biology. <i>Briefings in Functional Genomics & Proteomics</i> , 2003, 2, 175-184.	3.8	73
136	Totally asymmetric exclusion process with extended objects: A model for protein synthesis. <i>Physical Review E</i> , 2003, 68, 021910.	0.8	312
137	Editorial: <i>Electrophoresis</i> 14/2002. <i>Electrophoresis</i> , 2002, 23, 2147.	1.3	0
138	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
139	Studies of potential cerebrospinal fluid molecular markers for Alzheimer's disease. <i>Electrophoresis</i> , 2002, 23, 2247.	1.3	87
140	Jay Bailey as mentor? The students' perspective. <i>Biotechnology and Bioengineering</i> , 2002, 79, 484-489.	1.7	1
141	Inverse metabolic engineering: A strategy for directed genetic engineering of useful phenotypes. <i>Biotechnology and Bioengineering</i> , 2002, 79, 568-579.	1.7	88
142	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
143	Proteomics: a technology-driven and technology-limited discovery science. <i>Trends in Biotechnology</i> , 2001, 19, 217-222.	4.9	117
144	A comparison of three commercially available isoelectric focusing units for proteome analysis: The Multiphor, the IPGphor and the Protean IEF cell. <i>Electrophoresis</i> , 2000, 21, 993-1000.	1.3	41

#	ARTICLE	IF	CITATIONS
145	Genomic analysis. Current Opinion in Biotechnology, 2000, 11, 171-175.	3.3	62
146	Proteomic analysis. Current Opinion in Biotechnology, 2000, 11, 176-179.	3.3	97
147	Double-Label Analysis. , 1999, 112, 291-296.		0
148	Proteomics: Theoretical and Experimental Considerations. Biotechnology Progress, 1999, 15, 312-318.	1.3	93
149	Dynamical Analysis of Gene Networks Requires Both mRNA and Protein Expression Information. Metabolic Engineering, 1999, 1, 275-281.	3.6	85
150	Proteome analysis of factor for inversion stimulation (Fis) overproduction in Escherichia coli. Electrophoresis, 1999, 20, 798-805.	1.3	17
151	Analysis of host-induced response in the rice blast fungus Magnaporthe grisea using two-dimensional polyacrylamide gel electrophoresis. Electrophoresis, 1997, 18, 163-169.	1.3	10
152	The assay development of a molecular marker for transmissible spongiform encephalopathies. Electrophoresis, 1997, 18, 502-506.	1.3	14
153	The 14-3-3 Brain Protein in Cerebrospinal Fluid as a Marker for Transmissible Spongiform Encephalopathies. New England Journal of Medicine, 1996, 335, 924-930.	13.9	662
154	Premortem diagnosis of Creutzfeldt-Jakob disease by cerebrospinal fluid analysis. Lancet, The, 1996, 348, 887.	6.3	20
155	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
156	Two-dimensional electrophoresis of proteins as a tool in the metabolic engineering of cell cycle regulation. , 1996, 50, 336-340.		27
157	Inverse metabolic engineering: A strategy for directed genetic engineering of useful phenotypes. , 1996, 52, 109-121.		136
158	Recombinant cyclin E expression activates proliferation and obviates surface attachment of Chinese hamster ovary (CHO) cells in protein-free medium. Biotechnology and Bioengineering, 1995, 47, 476-482.	1.7	67
159	A mathematical model for the G1/S transition of the mammalian cell cycle. Biotechnology Letters, 1995, 17, 669-674.	1.1	18
160	Sponge-like electrophoresis media: Mechanically strong materials compatible with organic solvents, polymer solutions and two-dimensional electrophoresis. Electrophoresis, 1994, 15, 187-194.	1.3	16
161	Liver Toxicity Encountered in the Veterans Administration Trial of Disulfiram in Alcoholics. Alcoholism: Clinical and Experimental Research, 1987, 11, 301-304.	1.4	38