Kelvin H Lee

List of Publications by Year
in descending order

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161 papers	8,205 citations	41344 49 h-index	54911 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.	2.2	4
2	Restoration of DNA repair mitigates genome instability and increases productivity of Chinese hamster ovary cells. Biotechnology and Bioengineering, 2022, 119, 963-982.	3.3	11
3	Biopharmaceutical Manufacturing: Historical Perspectives and Future Directions. Annual Review of Chemical and Biomolecular Engineering, 2022, 13, 141-165.	6.8	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.	3.3	5
5	Systematic identification of safe harbor regions in the CHO genome through a comprehensive epigenome analysis. Biotechnology and Bioengineering, 2021, 118, 659-675.	3.3	19
6	Modeling the Effect of Amino Acids and Copper on Monoclonal Antibody Productivity and Glycosylation: A Modular Approach. Biotechnology Journal, 2021, 16, e2000261.	3.5	7
7	Endâ€toâ€end collaboration to transform biopharmaceutical development and manufacturing. Biotechnology and Bioengineering, 2021, 118, 3302-3312.	3.3	28
8	DNA Double-Strand Breaks Affect Chromosomal Rearrangements during Methotrexate-Mediated Gene Amplification in Chinese Hamster Ovary Cells. Pharmaceutics, 2021, 13, 376.	4.5	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, .	2.9	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.	6.6	14
11	Back Cover Image, Volume 118, Number 2, February 2021. Biotechnology and Bioengineering, 2021, 118, iv.	3.3	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.	0.5	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.	1.0	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.	1.0	2
15	EvalDNA: a machine learning-based tool for the comprehensive evaluation of mammalian genome assembly quality. BMC Bioinformatics, 2021, 22, 570.	2.6	2
16	Characterization of Monoclonal Antibody Glycan Heterogeneity Using Hydrophilic Interaction Liquid Chromatography-Mass Spectrometry. Frontiers in Bioengineering and Biotechnology, 2021, 9, 805788.	4.1	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.	3.8	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.	4.6	5

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19	Chromosomeâ€scale scaffolds for the Chinese hamster reference genome assembly to facilitate the study of the CHO epigenome. Biotechnology and Bioengineering, 2020, 117, 2331-2339.	3.3	30
20	A Siteâ€Specific Integration Reporter System That Enables Rapid Evaluation of CRISPR/Cas9â€Mediated Genome Editing Strategies in CHO Cells. Biotechnology Journal, 2020, 15, e2000057.	3.5	6
21	Antibody transcytosis across brain endothelial-like cells occurs nonspecifically and independent of FcRn. Scientific Reports, 2020, 10, 3685.	3.3	38
22	Cyberbiosecurity for Biopharmaceutical Products. Frontiers in Bioengineering and Biotechnology, 2019, 7, 116.	4.1	12
23	ImmunoglobulinÂG transport increases in an in vitro bloodâ€“brain barrier model with amyloidâ€Î² and with neuroinflammatory cytokines. Biotechnology and Bioengineering, 2019, 116, 1752-1761.	3.3	16
24	The fickle CHO: a review of the causes, implications, and potential alleviation of the CHO cell line instability problem. Current Opinion in Biotechnology, 2019, 60, 128-137.	6.6	85
25	Glyco-Mapper: A Chinese hamster ovary (CHO) genome-specific glycosylation prediction tool. Metabolic Engineering, 2018, 47, 134-142.	7.0	25
26	Advances in Cardiovascular Care. JACC Basic To Translational Science, 2018, 3, 114-118.	4.1	0
27	Isolation and Identification of Proteins Secreted by Cells Cultured within Synthetic Hydrogel-Based Matrices. ACS Biomaterials Science and Engineering, 2018, 4, 836-845.	5.2	22
28	Applications of proteomic methods for CHO host cell protein characterization in biopharmaceutical manufacturing. Current Opinion in Biotechnology, 2018, 53, 144-150.	6.6	52
29	A reference genome of the Chinese hamster based on a hybrid assembly strategy. Biotechnology and Bioengineering, 2018, 115, 2087-2100.	3.3	95
30	Growth Rate Changes in CHO Host Cells Are Associated with Karyotypic Heterogeneity. Biotechnology Journal, 2018, 13, e1700230.	3.5	17
31	Site-specific integration ushers in a new era of precise CHO cell line engineering. Current Opinion in Chemical Engineering, 2018, 22, 152-160.	7.8	46
32	Efflux Pump Substrates Shuttled to Cytosolic or Vesicular Compartments Exhibit Different Permeability in a Quantitative Human Bloodâ€“Brain Barrier Model. Molecular Pharmaceutics, 2018, 15, 5081-5088.	4.6	5
33	Bioinformatic analysis of Chinese hamster ovary host cell protein lipases. AICHE Journal, 2018, 64, 4247-4254.	3.6	6
34	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. Neurobiology of Disease, 2018, 119, 113-120.	4.4	40
35	Mechanisms of precipitate formation during the purification of an Fcâ€fusion protein. Biotechnology and Bioengineering, 2018, 115, 2489-2503.	3.3	3
36	Identification of Fibulinâ€1 as a Human Bone Marrow Stromal (HSâ€5) Cellâ€Derived Factor That Induces Human Prostate Cancer Cell Death. Prostate, 2017, 77, 729-742.	2.3	7

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37	A framework to quantify karyotype variation associated with CHO cell line instability at a singleâ€cell level. Biotechnology and Bioengineering, 2017, 114, 1045-1053.	3.3	36
38	Knockout of a difficultâ€toâ€remove CHO host cell protein, lipoprotein lipase, for improved polysorbate stability in monoclonal antibody formulations. Biotechnology and Bioengineering, 2017, 114, 1006-1015.	3.3	147
39	Tuning and Predicting Mesh Size and Protein Release from Step Growth Hydrogels. Biomacromolecules, 2017, 18, 3131-3142.	5.4	127
40	Toward improved host cell protein impurity assessment. Biotechnology Journal, 2016, 11, 998-999.	3.5	2
41	Fabrication of 3D Biomimetic Microfluidic Networks in Hydrogels. Advanced Healthcare Materials, 2016, 5, 2153-2160.	7.6	101
42	CHO Cells Can Make More Protein. Cell Systems, 2016, 3, 412-413.	6.2	14
43	Biomimetic Microfluidic Networks: Fabrication of 3D Biomimetic Microfluidic Networks in Hydrogels (Adv. Healthcare Mater. 17/2016). Advanced Healthcare Materials, 2016, 5, 2152-2152.	7.6	1
44	Chlorobaculum tepidum Modulates Amino Acid Composition in Response to Energy Availability, as Revealed by a Systematic Exploration of the Energy Landscape of Phototrophic Sulfur Oxidation. Applied and Environmental Microbiology, 2016, 82, 6431-6439.	3.1	2
45	Minimum Transendothelial Electrical Resistance Thresholds for the Study of Small and Large Molecule Drug Transport in a Human in Vitro Bloodâ€“Brain Barrier Model. Molecular Pharmaceutics, 2016, 13, 4191-4198.	4.6	72
46	Host cell protein impurities in chromatographic polishing steps for monoclonal antibody purification. Biotechnology and Bioengineering, 2016, 113, 1260-1272.	3.3	68
47	Multiple reaction monitoring assay based on conventional liquid chromatography and electrospray ionization for simultaneous monitoring of multiple cerebrospinal fluid biomarker candidates for Alzheimerâ€™s disease. Archives of Pharmacal Research, 2016, 39, 390-397.	6.3	6
48	Complex and extensive post-transcriptional regulation revealed by integrative proteomic and transcriptomic analysis of metabolite stress response in Clostridium acetobutylicum. Biotechnology for Biofuels, 2015, 8, 81.	6.2	31
49	Expression of difficultâ€toâ€remove host cell protein impurities during extended Chinese hamster ovary cell culture and their impact on continuous bioprocessing. Biotechnology and Bioengineering, 2015, 112, 1232-1242.	3.3	83
50	CHOgenome.org 2.0: Genome resources and website updates. Biotechnology Journal, 2015, 10, 931-938.	3.5	28
51	Improved protease digestion conditions for membrane protein detection. Electrophoresis, 2015, 36, 1690-1698.	2.4	12
52	Sequencing technologies for animal cell culture research. Biotechnology Letters, 2015, 37, 55-65.	2.2	5
53	Editorial overview: Nanobiotechnology. Current Opinion in Biotechnology, 2014, 28, iv-v.	6.6	2
54	Special Focus: An â€˜omics approach to Chinese hamster ovary based pharmaceutical bioprocessing. Pharmaceutical Bioprocessing, 2014, 2, 351-353.	0.8	2

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55	Amyloidâ€Î²2 concentration and structure influences the transport and immunomodulatory effects of <scp>IVIG</scp>. Journal of Neurochemistry, 2014, 130, 136-144.	3.9	3
56	Longitudinal effects of intravenous immunoglobulin on <scp>A</scp>lzheimer's cerebrospinal fluid proteome. Electrophoresis, 2014, 35, 1821-1827.	2.4	3
57	Identification and characterization of host cell protein productâ€associated impurities in monoclonal antibody bioprocessing. Biotechnology and Bioengineering, 2014, 111, 904-912.	3.3	146
58	The evolving engineer. AICHE Journal, 2014, 60, 1956-1963.	3.6	5
59	Recovery of Chinese hamster ovary host cell proteins for proteomic analysis. Biotechnology Journal, 2014, 9, 87-99.	3.5	47
60	Effects of copper on CHO cells: Insights from gene expression analyses. Biotechnology Progress, 2014, 30, 429-442.	2.6	47
61	miRNA Expression in CHO: Nature knows best. Biotechnology Journal, 2014, 9, 459-460.	3.5	6
62	Toward product attribute control: developments from genome sequencing. Current Opinion in Biotechnology, 2014, 30, 40-44.	6.6	9
63	Membrane configuration optimization for a murine in vitro bloodâ€“brain barrier model. Journal of Neuroscience Methods, 2013, 212, 211-221.	2.5	73
64	Workflow for quantitative proteomic analysis of Clostridium acetobutylicum ATCC 824 using iTRAQ tags. Methods, 2013, 61, 269-276.	3.8	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.	2.3	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 WO3-based tandem cell device. Energy and Environmental Science, 2012, 5, 9091.	30.8	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.	2.1	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.	2.5	37
70	Optimization of protein sample preparation for twoâ€dimensional electrophoresis. Electrophoresis, 2012, 33, 1947-1957.	2.4	17
71	Longitudinal analysis of novel Alzheimer's disease proteomic cerebrospinal fluid biomarkers during intravenous immunoglobulin therapy. Electrophoresis, 2012, 33, 1975-1979.	2.4	13
72	Optimization of endothelial cell growth in a murine in vitro bloodâ€“brain barrier model. Biotechnology Journal, 2012, 7, 409-417.	3.5	30

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73	Chinese hamster genome database: An online resource for the CHO community at www.CHOgenome.org. Biotechnology and Bioengineering, 2012, 109, 1353-1356.	3.3	74
74	Profiling conserved microRNA expression in recombinant CHO cell lines using illumina sequencing. Biotechnology and Bioengineering, 2012, 109, 1371-1375.	3.3	37
75	A single nucleotide polymorphism in ycdC alters tRNA synthetase expression and results in hypersecretion in Escherichia coli. Biotechnology Progress, 2012, 28, 646-653.	2.6	0
76	Proteomic and physiological experiments to test Thermotoga neapolitana constraintâ€based model hypotheses of carbon source utilization. Biotechnology Progress, 2012, 28, 312-318.	2.6	2
77	Genomics in mammalian cell culture bioprocessing. Biotechnology Advances, 2012, 30, 629-638.	11.7	53
78	RNA interference of cofilin in Chinese hamster ovary cells improves recombinant protein productivity. Biotechnology and Bioengineering, 2012, 109, 528-535.	3.3	20
79	The genomic sequence of the Chinese hamster ovary (CHO)-K1 cell line. Nature Biotechnology, 2011, 29, 735-741.	17.5	699
80	Murine in vitro model of the bloodâ€“brain barrier for evaluating drug transport. European Journal of Pharmaceutical Sciences, 2011, 42, 148-155.	4.0	64
81	Proteomic assessment of a cell model of spinal muscular atrophy. BMC Neuroscience, 2011, 12, 25.	1.9	37
82	Genomic sequencing and analysis of a Chinese hamster ovary cell line using Illumina sequencing technology. BMC Genomics, 2011, 12, 67.	2.8	37
83	The effect of astrocytes on the induction of barrier properties in aortic endothelial cells. Biotechnology Progress, 2011, 27, 1137-1145.	2.6	7
84	Identification of the phosphorylation sites in the survival motor neuron protein by protein kinase A. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 1134-1139.	2.3	12
85	The many paths to frameshifting: kinetic modelling and analysis of the effects of different elongation steps on programmed â€“1 ribosomal frameshifting. Nucleic Acids Research, 2011, 39, 300-312.	14.5	42
86	A rapid, inexpensive yeast-based dual-fluorescence assay of programmedâ€”1 ribosomal frameshifting for high-throughput screening. Nucleic Acids Research, 2011, 39, e97-e97.	14.5	13
87	Overexpression of Cloned RhsA Sequences Perturbs the Cellular Translational Machinery in Escherichia coli. Journal of Bacteriology, 2011, 193, 4869-4880.	2.2	12
88	Recent cerebrospinal fluid biomarker studies of Alzheimerâ€™s disease. Expert Review of Proteomics, 2010, 7, 919-929.	3.0	20
89	From SNPs to functional polymorphism: The insight into biotechnology applications. Biochemical Engineering Journal, 2010, 49, 149-158.	3.6	81
90	The phospholipase complex PAFAH Ib regulates the functional organization of the Golgi complex. Journal of Cell Biology, 2010, 190, 45-53.	5.2	32

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91	Phragmites australisroot secreted phytotoxin undergoes photo-degradation to execute severe phytotoxicity. Plant Signaling and Behavior, 2009, 4, 506-513.	2.4	31
92	FSscan: a mechanism-based program to identify +1 ribosomal frameshift hotspots. Nucleic Acids Research, 2009, 37, 7302-7311.	14.5	13
93	On-chip coupling of electrochemical pumps and an SU-8 tip for electrospray ionization mass spectrometry. Biomedical Microdevices, 2008, 10, 891-897.	2.8	12
94	Protein extraction and 2â€ÐDE of waterâ€•and lipidâ€soluble proteins from bovine pericardium, a lowâ€cellularity tissue. Electrophoresis, 2008, 29, 4508-4515.	2.4	11
95	Silent mutations result in HlyA hypersecretion by reducing intracellular HlyA protein aggregates. Biotechnology and Bioengineering, 2008, 101, 967-974.	3.3	12
96	iTRAQPak: an R based analysis and visualization package for 8-plex isobaric protein expression data. Briefings in Functional Genomics & Proteomics, 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. Nucleic Acids Research, 2008, 36, 2619-2629.	14.5	31
98	PERIODâ€“TIMELESS Interval Timer May Require an Additional Feedback Loop. PLoS Computational Biology, 2007, 3, e154.	3.2	14
99	Cerebrospinal fluid proteomic biomarkers for Alzheimer's disease. Annals of Neurology, 2007, 61, 120-129.	5.3	168
100	Reply: Cerebrospinal fluid proteomics for biomarkers of Alzheimer's disease. Annals of Neurology, 2007, 61, 497-498.	5.3	6
101	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.	2.3	5
102	8â€Plex quantitation of changes in cerebrospinal fluid protein expression in subjects undergoing intravenous immunoglobulin treatment for Alzheimer's disease. Proteomics, 2007, 7, 3651-3660.	2.2	291
103	Genomics and proteomics in process development: opportunities and challenges. Trends in Biotechnology, 2007, 25, 324-330.	9.3	65
104	Shotgun proteomics using the iTRAQ isobaric tags. Briefings in Functional Genomics & Proteomics, 2006, 5, 112-120.	3.8	311
105	Two-dimensional protein electrophoresis: From molecular pathway discovery to biomarker discovery in neurological disorders. NeuroRx, 2006, 3, 327-335.	6.0	15
106	Proteomic Analysis of Cerebrospinal Fluid Changes Related to Postmortem Interval. Clinical Chemistry, 2006, 52, 1906-1913.	3.2	35
107	Two-dimensional protein electrophoresis: From molecular pathway discovery to biomarker discovery in neurological disorders. Neurotherapeutics, 2006, 3, 327-335.	4.4	0
108	A surface modification strategy on silicon nitride for developing biosensors. Analytical Biochemistry, 2005, 343, 322-328.	2.4	79

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109	Isoelectric focusing in cyclic olefin copolymer microfluidic channels coated by polyacrylamide using a UV photografting method. Electrophoresis, 2005, 26, 1800-1806.	2.4	89
110	A comparison of the consistency of proteome quantitation using two-dimensional electrophoresis and shotgun isobaric tagging inEscherichia coli cells. Electrophoresis, 2005, 26, 2437-2449.	2.4	112
111	Coupling on-chip solid-phase extraction to electrospray mass spectrometry through an integrated electrospray tip. Electrophoresis, 2005, 26, 3622-3630.	2.4	71
112	Engineering HlyA hypersecretion inEscherichia coli based on proteomic and microarray analyses. Biotechnology and Bioengineering, 2005, 89, 195-205.	3.3	29
113	Cytochalasin D can improve heterologous protein productivity in adherent Chinese hamster ovary cells. Biotechnology and Bioengineering, 2005, 90, 354-364.	3.3	45
114	Quantitative analysis of protein expression using amine-specific isobaric tags inEscherichia coli cells expressingrhsA elements. Proteomics, 2005, 5, 2297-2308.	2.2	70
115	Kinetic characterization of sequencing grade modified trypsin. Proteomics, 2005, 5, 2319-2321.	2.2	79
116	Complement Protein Isoforms in CSF as Possible Biomarkers for Neurodegenerative Disease. Disease Markers, 2005, 21, 93-101.	1.3	79
117	Improved understanding of gene expression regulation using systems biology. Expert Review of Proteomics, 2005, 2, 915-924.	3.0	5
118	A polymeric microchip with integrated tips and in situ polymerized monolith for electrospray mass spectrometry. Lab on A Chip, 2005, 5, 869.	6.0	86
119	Alzheimer's disease cerebrospinal fluid biomarker discovery: a proteomics approach. Current Opinion in Molecular Therapeutics, 2005, 7, 557-64.	2.8	8
120	Local inhomogeneity in asymmetric simple exclusion processes with extended objects. Journal of Physics A, 2004, 37, 2105-2113.	1.6	109
121	Mean-field approaches to the totally asymmetric exclusion process with quenched disorder and large particles. Physical Review E, 2004, 70, 021901.	2.1	64
122	Affinity depletion of albumin from human cerebrospinal fluid using Cibacron-blue-3G-A-derivatized photopatterned copolymer in a microfluidic device. Analytical Biochemistry, 2004, 333, 381-388.	2.4	36
123	Fed-batch production of d-ribose from sugar mixtures by transketolase-deficient Bacillus subtilis SPK1. Applied Microbiology and Biotechnology, 2004, 66, 297-302.	3.6	17
124	An introduction to mass spectrometry applications in biological research. Biochemistry and Molecular Biology Education, 2004, 32, 93-100.	1.2	48
125	A two-dimensional electrophoresis map of Chinese hamster ovary cell proteins based on fluorescence staining. Electrophoresis, 2004, 25, 2545-2556.	2.4	50
126	Towards two-dimensional electrophoresis mapping of the cerebrospinal fluid proteome from a single individual. Electrophoresis, 2004, 25, 2564-2575.	2.4	59

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127	Applications of affinity chromatography in proteomics. Analytical Biochemistry, 2004, 324, 1-10.	2.4	165
128	Affinity separations using microfabricated microfluidic devices:In situ photopolymerization and use in protein separations. Biotechnology and Bioprocess Engineering, 2003, 8, 240-245.	2.6	11
129	Quantitative and qualitative measure of intralaboratory two-dimensional protein gel reproducibility and the effects of sample preparation, sample load, and image analysis. Electrophoresis, 2003, 24, 3500-3507.	2.4	75
130	Comparison of automated in-gel digest methods for femtomole level samples. Electrophoresis, 2003, 24, 3508-3516.	2.4	41
131	Proteomics: An exciting new science, but where are the chemical engineers?. AICHE Journal, 2003, 49, 2682-2686.	3.6	4
132	Insights into the relation between mrna and protein expression patterns: ii. Experimental observations inEscherichia coli. Biotechnology and Bioengineering, 2003, 84, 834-841.	3.3	77
133	Escherichia coliâ€"a model system that benefits from and contributes to the evolution of proteomics. Biotechnology and Bioengineering, 2003, 84, 801-814.	3.3	42
134	Insights into the relation between mRNA and protein expression patterns: I. theoretical considerations. Biotechnology and Bioengineering, 2003, 84, 822-833.	3.3	106
135	Functional genomics and proteomics as a foundation for systems biology. Briefings in Functional Genomics & Proteomics, 2003, 2, 175-184.	3.8	73
136	Totally asymmetric exclusion process with extended objects: A model for protein synthesis. Physical Review E, 2003, 68, 021910.	2.1	312
137	Editorial: Electrophoresis 14/2002. Electrophoresis, 2002, 23, 2147.	2.4	0
138	Apolipoprotein E and other cerebrospinal fluid proteins differentiate ante mortem variant Creutzfeldt-Jakob disease from ante mortem sporadic Creutzfeldt-Jakob disease. Electrophoresis, 2002, 23, 2242.	2.4	54
139	Studies of potential cerebrospinal fluid molecular markers for Alzheimer's disease. Electrophoresis, 2002, 23, 2247.	2.4	87
140	Jay Bailey as mentor?The students' perspective. Biotechnology and Bioengineering, 2002, 79, 484-489.	3.3	1
141	Inverse metabolic engineering: A strategy for directed genetic engineering of useful phenotypes. Biotechnology and Bioengineering, 2002, 79, 568-579.	3.3	88
142	The scaled volume as an image analysis variable for detecting changes in protein expression levels by silver stain. Electrophoresis, 2001, 22, 1627-1632.	2.4	24
143	Proteomics: a technology-driven and technology-limited discovery science. Trends in Biotechnology, 2001, 19, 217-222.	9.3	117
144	A comparison of three commercially available isoelectric focusing units for proteome analysis: The Multiphor, the IPGphor and the Protean IEF cell. Electrophoresis, 2000, 21, 993-1000.	2.4	41

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145	Genomic analysis. Current Opinion in Biotechnology, 2000, 11, 171-175.	6.6	62
146	Proteomic analysis. Current Opinion in Biotechnology, 2000, 11, 176-179.	6.6	97
147	Double-Label Analysis. , 1999, 112, 291-296.		0
148	Proteomics: Theoretical and Experimental Considerations. Biotechnology Progress, 1999, 15, 312-318.	2.6	93
149	Dynamical Analysis of Gene Networks Requires Both mRNA and Protein Expression Information. Metabolic Engineering, 1999, 1, 275-281.	7.0	85
150	Proteome analysis of factor for inversion stimulation (Fis) overproduction inEscherichia coli. Electrophoresis, 1999, 20, 798-805.	2.4	17
151	Analysis of host-induced response in the rice blast fungusMagnaporthe grisea using two-dimensional polyacrylamide gel electrophoresis. Electrophoresis, 1997, 18, 163-169.	2.4	10
152	The assay development of a molecular marker for transmissible spongiform encephalopathies. Electrophoresis, 1997, 18, 502-506.	2.4	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.	27.0	662
154	Premortem diagnosis of Creutzfeldt-Jakob disease by cerebrospinal fluid analysis. Lancet, The, 1996, 348, 887.	13.7	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.	3.3	67
159	A mathematical model for the G1/S transition of the mammalian cell cycle. Biotechnology Letters, 1995, 17, 669-674.	2.2	18
160	Sponge-like electrophoresis media: Mechanically strong materials compatible with organic solvents, polymer solutions and two-dimensional electrophoresis. Electrophoresis, 1994, 15, 187-194.	2.4	16
161	Liver Toxicity Encountered in the Veterans Administration Trial of Disulfiram in Alcoholics. Alcoholism: Clinical and Experimental Research, 1987, 11, 301-304.	2.4	38