

David W Murhammer

List of Publications by Year in descending order

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44
papers

1,664
citations

361413

20
h-index

315739

38
g-index

45
all docs

45
docs citations

45
times ranked

1081
citing authors

#	ARTICLE	IF	CITATIONS
1	Scaleup of Insect Cell Cultures: Protective Effects of Pluronic F-68. <i>Nature Biotechnology</i> , 1988, 6, 1411-1418.	17.5	169
2	Sparged animal cell bioreactors: mechanism of cell damage and pluronic F-68 protection. <i>Biotechnology Progress</i> , 1990, 6, 391-397.	2.6	162
3	Antioxidant defense systems of two lepidopteran insect cell lines. <i>Free Radical Biology and Medicine</i> , 2001, 30, 1254-1262.	2.9	132
4	Simultaneous Measurements of Glucose, Glutamine, Ammonia, Lactate, and Glutamate in Aqueous Solutions by Near-Infrared Spectroscopy. <i>Applied Spectroscopy</i> , 1996, 50, 270-276.	2.2	125
5	Evidence of oxidative stress following the viral infection of two lepidopteran insect cell lines. <i>Free Radical Biology and Medicine</i> , 2001, 31, 1448-1455.	2.9	102
6	Structural features of nonionic polyglycol polymer molecules responsible for the protective effect in sparged animal cell bioreactors. <i>Biotechnology Progress</i> , 1990, 6, 142-148.	2.6	101
7	Comparison of <i>Trichoplusia ni</i> BTI-Tn-5B1-4 (high five [®]) and <i>Spodoptera frugiperda</i> Sf-9 insect cell line metabolism in suspension cultures. , 1997, 55, 909-920.		94
8	Simultaneous measurement of glucose and glutamine in insect cell culture media by near infrared spectroscopy. , 1997, 55, 11-15.		83
9	Nondestructive near-infrared spectroscopic measurement of multiple analytes in undiluted samples of serum-based cell culture media. <i>Biotechnology and Bioengineering</i> , 2002, 77, 73-82.	3.3	68
10	Adaptive Calibration Scheme for Quantification of Nutrients and Byproducts in Insect Cell Bioreactors by Near-Infrared Spectroscopy. <i>Biotechnology Progress</i> , 1998, 14, 527-533.	2.6	55
11	Simultaneous measurement of glucose and glutamine in aqueous solutions by near infrared spectroscopy. <i>Applied Biochemistry and Biotechnology</i> , 1995, 50, 109-125.	2.9	44
12	Pure Component Selectivity Analysis of Multivariate Calibration Models from Near-Infrared Spectra. <i>Analytical Chemistry</i> , 2004, 76, 2583-2590.	6.5	44
13	Review and patents and literature. <i>Applied Biochemistry and Biotechnology</i> , 1991, 31, 283-292.	2.9	37
14	Matrix-Enhanced Calibration Procedure for Multivariate Calibration Models with Near-Infrared Spectra. <i>Applied Spectroscopy</i> , 1998, 52, 1339-1347.	2.2	33
15	On-line monitoring of human prostate cancer cells in a perfusion rotating wall vessel by near-infrared spectroscopy. <i>Biotechnology and Bioengineering</i> , 2004, 86, 852-861.	3.3	32
16	The effect of oscillating dissolved oxygen concentrations on the metabolism of a <i>Spodoptera frugiperda</i> IPLB-Sf21-AE clonal isolate. <i>Biotechnology and Bioengineering</i> , 1995, 47, 640-650.	3.3	28
17	Use of viral insecticides for pest control and production in cell culture. <i>Applied Biochemistry and Biotechnology</i> , 1996, 59, 199-220.	2.9	26
18	Bioreactor Headspace Purging Reduces Dissolved Carbon Dioxide Accumulation in Insect Cell Cultures and Enhances Cell Growth. <i>Biotechnology Progress</i> , 1997, 13, 875-877.	2.6	26

#	ARTICLE	IF	CITATIONS
19	Production of baculovirus defective interfering particles during serial passage is delayed by removing transposon target sites in fp25k. <i>Journal of General Virology</i> , 2012, 93, 389-399.	2.9	26
20	The effect of dissolved oxygen (DO) concentration on the glycosylation of recombinant protein produced by the insect cell-baculovirus expression system. <i>Biotechnology and Bioengineering</i> , 2002, 77, 219-224.	3.3	25
21	bcl-2 expression in <i>Spodoptera Frugiperda</i> Sf-9 and <i>Trichoplusia Ni</i> BTI-Tn-5B1-4 insect cells: Effect on recombinant protein expression and cell viability. , 1997, 56, 380-390.		24
22	On-line near infrared bioreactor monitoring of cell density and concentrations of glucose and lactate during insect cell cultivation. <i>Journal of Biotechnology</i> , 2014, 173, 106-111.	3.8	23
23	Recombinant protein synthesis in <i>Trichoplusia ni</i> BTI-Tn-5B1-4 insect cell aggregates. <i>Biotechnology and Bioengineering</i> , 1999, 63, 612-617.	3.3	21
24	Clonal variation in the <i>Spodoptera frugiperda</i> IPLB-SF21-AE insect cell population. <i>Biotechnology Progress</i> , 1994, 10, 314-319.	2.6	20
25	Expression of C1 Esterase Inhibitor by the Baculovirus Expression Vector System: Preparation, Purification, and Characterization. <i>Protein Expression and Purification</i> , 2001, 22, 414-421.	1.3	20
26	CULTURE IN THE ROTATING-WALL VESSEL AFFECTS RECOMBINANT PROTEIN PRODUCTION CAPABILITY OF TWO INSECT CELL LINES IN DIFFERENT MANNERS. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2000, 36, 362.	1.5	14
27	The response of virally infected insect cells to dissolved oxygen concentration: Recombinant protein production and oxidative damage. <i>Biotechnology and Bioengineering</i> , 2003, 81, 106-114.	3.3	13
28	Effect of Expression of Manganese Superoxide Dismutase in Baculovirus-Infected Insect Cells. <i>Applied Biochemistry and Biotechnology</i> , 2004, 119, 181-194.	2.9	13
29	Effect of Sample Complexity on Quantification of Analytes in Aqueous Samples by Near-Infrared Spectroscopy. <i>Applied Spectroscopy</i> , 2000, 54, 255-261.	2.2	12
30	Release and Preparation of Intact and Unreduced Tv-Linked Oligosaccharides From Sf-9 Insect Cells. <i>Preparative Biochemistry and Biotechnology</i> , 1999, 29, 1-21.	1.9	11
31	Removal of transposon target sites from the <i>Autographa californica</i> multiple nucleopolyhedrovirus fp25k gene delays, but does not prevent, accumulation of the few polyhedra phenotype. <i>Journal of General Virology</i> , 2010, 91, 3053-3064.	2.9	11
32	Enzyme Kinetics and Glycan Structural Characterization of Secreted Alkaline Phosphatase Prepared Using the Baculovirus Expression Vector System. <i>Applied Biochemistry and Biotechnology</i> , 2002, 101, 197-210.	2.9	10
33	Evaluating prostate cancer cell culturing methods: a comparison of cell morphologies and metabolic activity. <i>Oncology Reports</i> , 2003, 10, 783-9.	2.6	10
34	Separation of β -acid glycoprotein glycoforms using affinity-based reversed micellar extraction and separation. <i>Biotechnology and Bioengineering</i> , 2000, 70, 484-490.	3.3	9
35	Ammonia measurements in mammalian cell culture media with a diffuse reflectance-based fiberoptic ammonia sensor. <i>Applied Biochemistry and Biotechnology</i> , 1998, 75, 175-186.	2.9	6
36	finity Purification of Secreted Alkaline Phosphatase Produced by Baculovirus Expression Vector System. <i>Applied Biochemistry and Biotechnology</i> , 2001, 90, 125-136.	2.9	6

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37	A detailed model and Monte Carlo simulation for predicting DIP genome length distribution in baculovirus infection of insect cells. <i>Biotechnology and Bioengineering</i> , 2021, 118, 238-252.	3.3	6
38	Useful Tips, Widely Used Techniques, and Quantifying Cell Metabolic Behavior. <i>Methods in Molecular Biology</i> , 2016, 1350, 3-22.	0.9	6
39	Selective Measurement of Glutamine and Asparagine in Aqueous Media by Near-Infrared Spectroscopy. <i>ACS Symposium Series</i> , 1996, , 116-132.	0.5	5
40	Useful Tips, Widely Used Techniques, and Quantifying Cell Metabolic Behavior. <i>Methods in Molecular Biology</i> , 2007, 388, 3-22.	0.9	4
41	Effect of CO_2 on uninfected <i>S.</i> cell growth and metabolism. <i>Biotechnology Progress</i> , 2016, 32, 465-469.	2.6	3
42	Variation in recombinant protein expression levels among clones of lepidopteran cell populations. <i>Enzyme and Microbial Technology</i> , 1995, 17, 168-174.	3.2	2
43	Metabolic alteration of the N-glycan structure of a protein from patients with a heterozygous protein deficiency. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2004, 1739, 43-49.	3.8	2
44	Isolation of virally-infected insect cells from a population containing infected and uninfected cells. <i>Biotechnology Letters</i> , 1995, 9, 897-900.	0.5	0