

Charles E Glatz

List of Publications by Year in descending order

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74
papers

1,881
citations

236925

25
h-index

330143

37
g-index

74
all docs

74
docs citations

74
times ranked

1276
citing authors

#	ARTICLE	IF	CITATIONS
1	Considerations for the recovery of recombinant proteins from plants. <i>Biotechnology Progress</i> , 2004, 20, 1001-1014.	2.6	152
2	Propionic acid production by extractive fermentation. I. Solvent considerations. , 1998, 57, 454-461.		81
3	Aqueous two-phase extraction for protein recovery from corn extracts. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 845, 38-50.	2.3	77
4	Destabilization of the Emulsion Formed during Aqueous Extraction of Soybean Oil. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2008, 85, 383-390.	1.9	72
5	Extraction of protein from distiller's grain. <i>Bioresource Technology</i> , 2009, 100, 2012-2017.	9.6	66
6	Precipitation of nucleic acids with poly(ethyleneimine). <i>Biotechnology Progress</i> , 1990, 6, 283-285.	2.6	51
7	Polyelectrolyte precipitation of proteins: I. The effect of reactor conditions. <i>Biotechnology and Bioengineering</i> , 1988, 32, 777-785.	3.3	48
8	Polyelectrolyte precipitation of β -galactosidase fusions containing poly-aspartic acid tails. <i>Journal of Biotechnology</i> , 1990, 14, 273-283.	3.8	44
9	PROTEIN PRECIPITATION-ANALYSIS OF PARTICLE SIZE DISTRIBUTION AND KINETICS. <i>Chemical Engineering Communications</i> , 1981, 12, 203-219.	2.6	41
10	Effects of pH and ionic strength on microfiltration of <i>C. glutamicum</i> . <i>Journal of Membrane Science</i> , 1999, 153, 23-32.	8.2	40
11	Isoelectric precipitation of soy protein. II. Kinetics of protein aggregate growth and breakage. <i>Biotechnology and Bioengineering</i> , 1983, 25, 3059-3078.	3.3	39
12	Recovery of propionic and acetic acids from fermentation broth by electrodialysis. <i>Biotechnology Progress</i> , 1992, 8, 479-485.	2.6	39
13	Extraction of Charged Fusion Proteins in Reversed Micelles: Comparison between Different Surfactant Systems. <i>Biotechnology Progress</i> , 1995, 11, 260-264.	2.6	39
14	Recovery of a charged-fusion protein from cell extracts by polyelectrolyte precipitation. <i>Biotechnology and Bioengineering</i> , 1990, 36, 467-475.	3.3	37
15	Genetically engineered charge modifications to enhance protein separation in aqueous two-phase systems: Electrochemical partitioning. <i>Biotechnology and Bioengineering</i> , 1994, 44, 147-153.	3.3	37
16	Purification of recombinant plant-made proteins from corn extracts by ultrafiltration. <i>Journal of Membrane Science</i> , 2010, 353, 103-110.	8.2	37
17	Charged fusions for selective recovery of β -galactosidase from cell extract using hollow fiber ion-exchange membrane adsorption. <i>Biotechnology and Bioengineering</i> , 1993, 42, 333-338.	3.3	33
18	Suitability of immobilized metal affinity chromatography for protein purification from canola. , 2000, 68, 52-58.		33

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19	Host selection as a downstream strategy: Polyelectrolyte precipitation of β -glucuronidase from plant extracts. <i>Biotechnology and Bioengineering</i> , 2002, 77, 148-154.	3.3	33
20	Bioprocess considerations for expanded-bed chromatography of crude canola extract: Sample preparation and adsorbent reuse. <i>Biotechnology and Bioengineering</i> , 2003, 81, 775-782.	3.3	33
21	A method for three-dimensional protein characterization and its application to a complex plant (corn) extract. <i>Biotechnology and Bioengineering</i> , 2007, 97, 1158-1169.	3.3	33
22	Separation of proteins from polyelectrolytes by ultrafiltration. <i>Journal of Membrane Science</i> , 1991, 55, 181-198.	8.2	31
23	Isoelectric precipitation of soy protein: I. Factors affecting particle size distribution. <i>Biotechnology and Bioengineering</i> , 1983, 25, 3049-3058.	3.3	30
24	Extraction of Recombinant Dog Gastric Lipase from Transgenic Corn Seed. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 8086-8092.	5.2	30
25	Purification and characterization of a transgenic corn grain-derived recombinant collagen type I alpha 1. <i>Biotechnology Progress</i> , 2009, 25, 1660-1668.	2.6	30
26	Ion exchange immobilization of changed β -galactosidase fusions for lactose hydrolysis. <i>Biotechnology and Bioengineering</i> , 1994, 44, 745-752.	3.3	27
27	Pressure dependence of subtilisin crystallization kinetics. <i>Journal of Crystal Growth</i> , 2000, 208, 678-686.	1.5	27
28	Capture of a recombinant protein from unclarified canola extract using streamline expanded bed anion exchange. <i>Biotechnology and Bioengineering</i> , 2003, 81, 855-864.	3.3	27
29	Genetic Engineering Strategies for Purification of Recombinant Proteins from Canola by Anion Exchange Chromatography: An Example of β -Glucuronidase. <i>Biotechnology Progress</i> , 2001, 17, 161-167.	2.6	26
30	Characterization of green tissue protein extract from alfalfa (<i>Medicago sativa</i>) exploiting a 3 α -D technique. <i>Journal of Separation Science</i> , 2009, 32, 3223-3231.	2.5	26
31	Process Engineering Strategy for Recombinant Protein Recovery from Canola by Cation Exchange Chromatography. <i>Biotechnology Progress</i> , 1999, 15, 12-18.	2.6	25
32	Characterization and Polyelectrolyte Precipitation of β -Galactosidase Containing Genetic Fusions of Charged Polypeptides. <i>Biotechnology Progress</i> , 1994, 10, 237-245.	2.6	24
33	Antibody Capture from Corn Endosperm Extracts by Packed Bed and Expanded Bed Adsorption. <i>Biotechnology Progress</i> , 2008, 21, 473-485.	2.6	24
34	Polyelectrolyte precipitation of proteins: II. Models of the particle size distributions. <i>Biotechnology and Bioengineering</i> , 1988, 32, 786-796.	3.3	22
35	Enhanced recovery and purification of <i>Aspergillus glucoamylase</i> from <i>Saccharomyces cerevisiae</i> by the addition of poly(aspartic acid) tails. <i>Enzyme and Microbial Technology</i> , 1993, 15, 593-600.	3.2	22
36	Contribution of protein charge to partitioning in aqueous two-phase systems. , 1998, 59, 461-470.		22

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37	Purification of recombinant aprotinin from transgenic corn germ fraction using ion exchange and hydrophobic interaction chromatography. <i>Applied Microbiology and Biotechnology</i> , 2007, 76, 607-613.	3.6	22
38	Predicting protein retention time in ion-exchange chromatography based on three-dimensional protein characterization. <i>Journal of Chromatography A</i> , 2009, 1216, 274-280.	3.7	22
39	Harvest time effects on membrane cake resistance of <i>Escherichia coli</i> broth. <i>Journal of Membrane Science</i> , 2001, 190, 93-106.	8.2	21
40	Purification and Characterization of a 44-kDa Recombinant Collagen I \pm 1 Fragment from Corn Grain. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 880-887.	5.2	21
41	Improving permeate flux and product transmission in the microfiltration of a bacterial cell suspension by flocculation with cationic polyelectrolytes. <i>Journal of Membrane Science</i> , 2008, 324, 198-208.	8.2	20
42	Protein recovery from enzyme-assisted aqueous extraction of soybean. <i>Biotechnology Progress</i> , 2010, 26, 488-495.	2.6	19
43	Recombinant protein purification from pea. <i>Biotechnology and Bioengineering</i> , 2004, 86, 108-114.	3.3	18
44	Protein Fractionation by Precipitation with Carboxymethyl Cellulose. <i>ACS Symposium Series</i> , 1990, , 170-187.	0.5	16
45	Genetically engineered charge modifications to enhance protein separation in aqueous two-phase systems: Charge directed partitioning. <i>Biotechnology and Bioengineering</i> , 1995, 46, 62-68.	3.3	16
46	Strategies for Recombinant Protein Recovery from Canolaby Precipitation. <i>Biotechnology Progress</i> , 1999, 15, 488-492.	2.6	15
47	Solvent Role in Protein Crystallization as Determined by Pressure Dependence of Nucleation Rate and Solubility. <i>Crystal Growth and Design</i> , 2002, 2, 45-50.	3.0	15
48	Zeta potential as a measure of polyelectrolyte flocculation and the effect of polymer dosing conditions on cell removal from fermentation broth. <i>Biotechnology and Bioengineering</i> , 2004, 87, 54-60.	3.3	15
49	Fractionation of transgenic corn seed by dry and wet milling to recover recombinant collagen-related proteins. <i>Biotechnology Progress</i> , 2009, 25, 1396-1401.	2.6	15
50	Parameters affecting enzyme-assisted aqueous extraction of extruded sunflower meal. <i>Food Chemistry</i> , 2016, 208, 245-251.	8.2	15
51	Charged Protein Partitioning in Aqueous Polyethylene Glycol-Dextran Two-Phase Systems: Salt Effects. <i>Separation Science and Technology</i> , 1999, 34, 423-438.	2.5	14
52	Compatibility of column inlet and adsorbent designs for processing of corn endosperm extract by expanded bed adsorption. <i>Biotechnology and Bioengineering</i> , 2004, 87, 324-336.	3.3	14
53	Aqueous Extraction of β -Glucuronidase from Transgenic Canola: Kinetics and Microstructure. <i>Biotechnology Progress</i> , 2002, 18, 1301-1305.	2.6	13
54	Enzymatic Assay Method for Evaluating the Lipase Activity in Complex Extracts from Transgenic Corn Seed. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 3181-3185.	5.2	13

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55	Reversed micellar extraction of charged fusion proteins. <i>Biotechnology Progress</i> , 1994, 10, 499-502.	2.6	12
56	Proteomics-based, multivariate random forest method for prediction of protein separation behavior during cation-exchange chromatography. <i>Journal of Chromatography A</i> , 2012, 1249, 103-114.	3.7	11
57	Water reuse in the L-lysine fermentation process. , 2000, 49, 341-347.		9
58	Coupled Application of Aqueous Two-Phase Partitioning and 2D-Electrophoresis for Characterization of Soybean Proteins. <i>Separation Science and Technology</i> , 2010, 45, 2210-2225.	2.5	9
59	Effect of carbon source on microfiltration of <i>Corynebacterium glutamicum</i> . <i>Journal of Membrane Science</i> , 2000, 171, 263-271.	8.2	8
60	Extracellular enzyme loss during polyelectrolyte flocculation of cells from fermentation broth. <i>Biotechnology and Bioengineering</i> , 2004, 87, 61-68.	3.3	8
61	Broth conditions determining specific cake resistance during microfiltration of <i>Bacillus subtilis</i> . <i>Biotechnology and Bioengineering</i> , 2006, 94, 346-352.	3.3	8
62	Process integration for recovery of recombinant collagen type I ± 1 from corn seed. <i>Biotechnology Progress</i> , 2016, 32, 98-107.	2.6	8
63	Solvent effects on the growth kinetics of subtilisin crystals. <i>Journal of Crystal Growth</i> , 2002, 240, 549-559.	1.5	7
64	Clarification of aqueous corn extracts by tangential flow microfiltration. <i>Journal of Membrane Science</i> , 2010, 365, 123-129.	8.2	6
65	Utilizing Protein-Lean Coproducts from Corn Containing Recombinant Pharmaceutical Proteins for Ethanol Production. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 10419-10425.	5.2	6
66	Subtilisin surface properties and crystal growth kinetics. <i>Journal of Crystal Growth</i> , 2003, 254, 492-502.	1.5	5
67	Recovery of enzyme byproducts from potential plant hosts for recombinant protein production. <i>Enzyme and Microbial Technology</i> , 2003, 33, 596-605.	3.2	4
68	Applicability of the stoichiometric displacement model to description of the retention behavior of charged-fusion proteins during fast protein liquid chromatography. <i>Journal of Chromatography A</i> , 2005, 1069, 113-118.	3.7	4
69	Hemolysis as a rapid screening technique for assessing the toxicity of native surfactin and a genetically engineered derivative. <i>Environmental Progress and Sustainable Energy</i> , 2017, 36, 505-510.	2.3	4
70	Recovery of Recombinant Dog Gastric Lipase from Corn Endosperm Extract. <i>Separation Science and Technology</i> , 2007, 42, 1195-1213.	2.5	3
71	Flux enhancement in hollow fiber ultrafiltration for the recovery of acid cheese whey precipitates. <i>Biotechnology Progress</i> , 1990, 6, 129-134.	2.6	2
72	Genetic engineering to enhance the selectivity of protein separations. <i>Applied Biochemistry and Biotechnology</i> , 1995, 54, 173-191.	2.9	2

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73	Accounting for host cell protein behavior in anionâ€exchange chromatography. <i>Biotechnology Progress</i> , 2016, 32, 1453-1463.	2.6	2
74	Propionic acid production by extractive fermentation. I. Solvent considerations. <i>Biotechnology and Bioengineering</i> , 1998, 57, 454-461.	3.3	1