

Rainer Hahn

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

2,605
citations

218677

26
h-index

197818

49
g-index

72
all docs

72
docs citations

72
times ranked

1876
citing authors

#	ARTICLE	IF	CITATIONS
1	Alkaline treatment enhances mass transfer in Protein A affinity chromatography. <i>Journal of Chromatography A</i> , 2022, 1673, 463058.	3.7	4
2	Mass transfer of proteins in chromatographic media: Comparison of pure and crude feed solutions. <i>Journal of Chromatography A</i> , 2022, 1676, 463264.	3.7	4
3	Three-dimensional chromatography for purification and characterization of antibody fragments and related impurities from <i>Escherichia coli</i> crude extracts. <i>Journal of Chromatography A</i> , 2021, 1638, 461702.	3.7	8
4	Integrated process development: The key to improve Fab production in <i>E. coli</i> . <i>Biotechnology Journal</i> , 2021, 16, e2000562.	3.5	7
5	Efficient production of recombinant secretory IgA against <i>Clostridium difficile</i> toxins in CHO-K1 cells. <i>Journal of Biotechnology</i> , 2021, 331, 1-13.	3.8	7
6	A comprehensive antigen production and characterisation study for easy-to-implement, specific and quantitative SARS-CoV-2 serotests. <i>EBioMedicine</i> , 2021, 67, 103348.	6.1	34
7	Patterns of protein adsorption in ion-exchange particles and columns: Evolution of protein concentration profiles during load, hold, and wash steps predicted for pore and solid diffusion mechanisms. <i>Journal of Chromatography A</i> , 2021, 1653, 462412.	3.7	7
8	Compartment Model of Mixing in a Bubble Trap and Its Impact on Chromatographic Separations. <i>Processes</i> , 2020, 8, 780.	2.8	1
9	Scale up of a chromatographic capture step for a clarified bacterial homogenate – Influence of mass transport limitation and competitive adsorption of impurities. <i>Journal of Chromatography A</i> , 2020, 1618, 460856.	3.7	11
10	Extraction of recombinant periplasmic proteins under industrially relevant process conditions: Selectivity and yield strongly depend on protein titer and methodology. <i>Biotechnology Progress</i> , 2020, 36, e2999.	2.6	10
11	Decoupling of recombinant protein production from <i>Escherichia coli</i> cell growth enhances functional expression of plant Leloir glycosyltransferases. <i>Biotechnology and Bioengineering</i> , 2019, 116, 1259-1268.	3.3	22
12	Hindered diffusion of proteins in mixture adsorption on porous anion exchangers and impact on flow-through purification of large proteins. <i>Journal of Chromatography A</i> , 2019, 1585, 121-130.	3.7	11
13	Hydrophobic interaction chromatography of proteins: Studies of unfolding upon adsorption by isothermal titration calorimetry. <i>Journal of Separation Science</i> , 2018, 41, 3069-3080.	2.5	14
14	A nonchromatographic process for purification of secretory immunoglobulins from caprine whey. <i>Biotechnology Progress</i> , 2017, 33, 642-653.	2.6	4
15	Secretory immunoglobulin purification from whey by chromatographic techniques. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1060, 53-62.	2.3	11
16	Real-time monitoring of protein precipitation in a tubular reactor for continuous bioprocessing. <i>Process Biochemistry</i> , 2016, 51, 1610-1621.	3.7	11
17	The Effect of Shear on the Structural Conformation of rhGH and IgG1 in Free Solution. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 1810-1818.	3.3	18
18	A systematic evaluation of mechanisms, material effects, and protein-dependent differences on friction-related protein particle formation in formulation and filling steps. <i>International Journal of Pharmaceutics</i> , 2016, 511, 931-945.	5.2	15

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19	A microscale method of protein extraction from bacteria: Interaction of Escherichia coli with cationic microparticles. <i>Journal of Biotechnology</i> , 2015, 207, 21-29.	3.8	7
20	Engineering batch and pulse refolding with transition of aggregation kinetics: An investigation using green fluorescent protein (GFP). <i>Chemical Engineering Science</i> , 2015, 131, 91-100.	3.8	7
21	Prediction of inclusion body solubilization from shaken to stirred reactors. <i>Biotechnology and Bioengineering</i> , 2014, 111, 84-94.	3.3	14
22	Continuous processing of recombinant proteins: Integration of refolding and purification using simulated moving bed size-exclusion chromatography with buffer recycling. <i>Journal of Chromatography A</i> , 2014, 1337, 48-56.	3.7	51
23	Integrated continuous dissolution, refolding and tag removal of fusion proteins from inclusion bodies in a tubular reactor. <i>Journal of Biotechnology</i> , 2014, 185, 39-50.	3.8	12
24	Impact of Sulfur and Vitamin C on the Allergenicity of Mal d 2 from Apple (<i>Malus domestica</i>). <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 7622-7630.	5.2	6
25	Continuous protein refolding in a tubular reactor. <i>Chemical Engineering Science</i> , 2014, 116, 763-772.	3.8	17
26	Identification and deletion of the major secreted protein of <i>Pichia pastoris</i> . <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 1241-1249.	3.6	32
27	Continuous processing of recombinant proteins: Integration of inclusion body solubilization and refolding using simulated moving bed size exclusion chromatography with buffer recycling. <i>Journal of Chromatography A</i> , 2013, 1319, 107-117.	3.7	26
28	Mechanism and model for solubilization of inclusion bodies. <i>Chemical Engineering Science</i> , 2013, 101, 631-641.	3.8	13
29	Autoprotease Npro: Analysis of self-cleaving fusion protein. <i>Journal of Chromatography A</i> , 2013, 1304, 92-100.	3.7	4
30	Methods for characterization of biochromatography media. <i>Journal of Separation Science</i> , 2012, 35, 3001-3032.	2.5	41
31	Purification and Formulation: Silent but Important Players in Vaccine Development. , 2012, , 145-188.		1
32	Hydrophobic interaction chromatography of proteins: Thermodynamic analysis of conformational changes. <i>Journal of Chromatography A</i> , 2010, 1217, 184-190.	3.7	63
33	Matrix-assisted refolding of autoprotease fusion proteins on an ion exchange column: A kinetic investigation. <i>Journal of Chromatography A</i> , 2010, 1217, 5950-5956.	3.7	13
34	Peptide affinity chromatography media that bind Npro fusion proteins under chaotropic conditions. <i>Journal of Chromatography A</i> , 2010, 1217, 6203-6213.	3.7	7
35	NproAutoprotease Fusion Technology: Development, Characteristics, and Influential Factors. <i>Separation Science and Technology</i> , 2010, 45, 2194-2209.	2.5	10
36	Refolding of N ^{pro} fusion proteins. <i>Biotechnology and Bioengineering</i> , 2009, 104, 774-784.	3.3	30

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37	EDDIE fusion proteins: Triggering autoproteolytic cleavage. <i>Process Biochemistry</i> , 2009, 44, 1217-1224.	3.7	18
38	Matrix-assisted refolding of autoprotease fusion proteins on an ion exchange column. <i>Journal of Chromatography A</i> , 2009, 1216, 8460-8469.	3.7	14
39	Conformational changes of Mal d 2, a thaumatin-like apple allergen, induced by food processing. <i>Food Chemistry</i> , 2009, 112, 803-811.	8.2	33
40	High-throughput system for determining dissolution kinetics of inclusion bodies. <i>Biotechnology Journal</i> , 2009, 4, 722-729.	3.5	12
41	Chapter 22 Ion-Exchange Chromatography. <i>Methods in Enzymology</i> , 2009, 463, 349-371.	1.0	68
42	Polymethacrylate monoliths for preparative and industrial separation of biomolecular assemblies. <i>Journal of Chromatography A</i> , 2008, 1184, 62-79.	3.7	201
43	Hydrophobic interaction chromatography of proteins. <i>Journal of Chromatography A</i> , 2008, 1198-1199, 154-163.	3.7	63
44	High level expression of a promising anti-idiotypic antibody fragment vaccine against HIV-1 in <i>Pichia pastoris</i> . <i>Journal of Biotechnology</i> , 2007, 128, 735-746.	3.8	41
45	Mapping of <i>Malus domestica</i> allergens by 2D electrophoresis and IgE reactivity. <i>Electrophoresis</i> , 2007, 28, 437-448.	2.4	49
46	Hydrophobic interaction chromatography of proteins IV. <i>Journal of Chromatography A</i> , 2007, 1139, 84-94.	3.7	61
47	Npro fusion technology to produce proteins with authentic N termini in <i>E. coli</i> . <i>Nature Methods</i> , 2007, 4, 1037-1043.	19.0	108
48	Dispersion effects in preparative polymethacrylate monoliths operated in radial-flow columns. <i>Journal of Proteomics</i> , 2007, 70, 87-94.	2.4	24
49	Comparison of protein A affinity sorbents III. Life time study. <i>Journal of Chromatography A</i> , 2006, 1102, 224-231.	3.7	118
50	Evaluation of a sensitive detection method for peptide arrays prepared by SPOT synthesis. <i>Journal of Proteomics</i> , 2006, 66, 45-57.	2.4	14
51	In situ determination of adsorption kinetics of proteins in a finite bath. <i>Journal of Chromatography A</i> , 2005, 1069, 23-30.	3.7	11
52	Hydrophobic interaction chromatography of proteins. <i>Journal of Chromatography A</i> , 2005, 1079, 221-228.	3.7	135
53	Comparison of protein A affinity sorbents. <i>Journal of Chromatography A</i> , 2005, 1093, 98-110.	3.7	151
54	Performance and characterization of a nanophased porous hydroxyapatite for protein chromatography. <i>Biotechnology and Bioengineering</i> , 2004, 87, 364-375.	3.3	74

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55	Mass transfer characteristics of plasmids in monoliths. <i>Journal of Separation Science</i> , 2004, 27, 819-827.	2.5	70
56	Monoliths for fast bioseparation and bioconversion and their applications in biotechnology. <i>Journal of Separation Science</i> , 2004, 27, 767-778.	2.5	160
57	Hydrophobic interaction chromatography of proteins. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2003, 790, 99-114.	2.3	65
58	Comparison of protein A affinity sorbents. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2003, 790, 35-51.	2.3	221
59	Directed Immobilization of Peptide Ligands to Accessible Pore Sites by Conjugation with a Placeholder Molecule. <i>Analytical Chemistry</i> , 2003, 75, 543-548.	6.5	34
60	Large Scale Separations. <i>Journal of Chromatography Library</i> , 2003, , 561-599.	0.1	3
61	Catalysts and Enzyme Reactors. <i>Journal of Chromatography Library</i> , 2003, 67, 699-724.	0.1	3
62	Hydrophobic interaction chromatography of proteins. <i>Journal of Chromatography A</i> , 2002, 972, 3-19.	3.7	80
63	Quantification of plasma-derived blood coagulation factor VIII by real-time biosensor measurements. <i>Biomedical Applications</i> , 2001, 752, 335-347.	1.7	6
64	Control method for integrity of continuous beds. <i>Journal of Chromatography A</i> , 2001, 908, 179-184.	3.7	23
65	Affinity Chromatography of Human Blood Coagulation Factor VIII on Monoliths with Peptides from a Combinatorial Library. <i>Journal of High Resolution Chromatography</i> , 2000, 23, 47-58.	1.4	76
66	A simple method to quantify staphylococcal protein A in the presence of human or animal IgG in various samples. <i>Journal of Immunological Methods</i> , 2000, 235, 61-69.	1.4	18
67	Peak Broadening in Protein Chromatography with Monoliths at Very Fast Separations. <i>Analytical Chemistry</i> , 2000, 72, 4853-4858.	6.5	76
68	Affinity Chromatography of Human Blood Coagulation Factor VIII on Monoliths with Peptides from a Combinatorial Library. <i>Journal of High Resolution Chromatography</i> , 2000, 23, 47-58.	1.4	2
69	Affinity chromatography of human estrogen receptor- α expressed in <i>Saccharomyces cerevisiae</i> . <i>Journal of Chromatography A</i> , 1999, 852, 161-173.	3.7	9
70	Cytokine activity assay by means of proliferation measured in plane convex microtiter wells. <i>Journal of Proteomics</i> , 1996, 32, 85-96.	2.4	6