

Bernt Nilsson

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

861
citations

471509

17
h-index

526287

27
g-index

52
all docs

52
docs citations

52
times ranked

430
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of an integrated continuous downstream process for acid-sensitive monoclonal antibodies based on a calcium-dependent Protein A ligand. <i>Journal of Chromatography A</i> , 2022, 1664, 462806.	3.7	11
2	Smart platform for development of small-scale integrated continuous downstream processes. <i>Advances in Chemical Engineering</i> , 2022, , 131-158.	0.9	1
3	Integrated continuous biomanufacturing on pilot scale for acid-sensitive monoclonal antibodies. <i>Biotechnology and Bioengineering</i> , 2022, 119, 2152-2166.	3.3	25
4	Automation of Modeling and Calibration of Integrated Preparative Protein Chromatography Systems. <i>Processes</i> , 2022, 10, 945.	2.8	5
5	Binary separation control in preparative gradient chromatography using iterative learning control. <i>Journal of Chromatography A</i> , 2022, 1673, 463078.	3.7	4
6	Continuous adsorption in food industry: The recovery of sinapic acid from rapeseed meal extract. <i>Separation and Purification Technology</i> , 2021, 254, 117403.	7.9	18
7	Optimal loading flow rate trajectory in monoclonal antibody capture chromatography. <i>Journal of Chromatography A</i> , 2021, 1635, 461760.	3.7	11
8	An integrated continuous downstream process with real-time control: A case study with periodic countercurrent chromatography and continuous virus inactivation. <i>Biotechnology and Bioengineering</i> , 2021, 118, 1645-1657.	3.3	17
9	Trajectory optimization of an oscillating industrial two-stage evaporator utilizing a Python-Aspen Plus Dynamics toolchain. <i>Chemical Engineering Research and Design</i> , 2020, 155, 12-17.	5.6	7
10	Model-based design and control of a small-scale integrated continuous end-to-end mAb platform. <i>Biotechnology Progress</i> , 2020, 36, e2995.	2.6	41
11	Optimization study on periodic counter-current chromatography integrated in a monoclonal antibody downstream process. <i>Journal of Chromatography A</i> , 2020, 1621, 461055.	3.7	35
12	Single-shooting optimization of an industrial process through co-simulation of a modularized Aspen Plus Dynamics model. <i>Computer Aided Chemical Engineering</i> , 2019, 46, 721-726.	0.5	1
13	Optimization of integrated chromatography sequences for purification of biopharmaceuticals. <i>Biotechnology Progress</i> , 2019, 35, e2871.	2.6	10
14	Integration of a complete downstream process for the automated lab-scale production of a recombinant protein. <i>Journal of Biotechnology</i> , 2019, 301, 45-51.	3.8	15
15	Model-based monitoring of industrial reversed phase chromatography to predict insulin variants. <i>Biotechnology Progress</i> , 2019, 35, e2813.	2.6	0
16	Mechanistic Modeling of Reversed-Phase Chromatography of Insulins within the Temperature Range 10–40 °C. <i>ACS Omega</i> , 2018, 3, 1946-1954.	3.5	7
17	Designing an Autonomous Integrated Downstream Sequence From a Batch Separation Process – An Industrial Case Study. <i>Biotechnology Journal</i> , 2018, 13, e1700691.	3.5	12
18	Design of two-column batch-to-batch recirculation to enhance performance in ion-exchange chromatography. <i>Journal of Chromatography A</i> , 2018, 1531, 112-121.	3.7	11

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19	Multi-flowrate Optimization of the Loading Phase of a Preparative Chromatographic Separation. <i>Computer Aided Chemical Engineering</i> , 2018, 43, 1619-1624.	0.5	10
20	Pareto-optimal reversed-phase chromatography separation of three insulin variants with a solubility constraint. <i>Journal of Chromatography A</i> , 2018, 1532, 98-104.	3.7	3
21	Design and control of integrated chromatography column sequences. <i>Biotechnology Progress</i> , 2017, 33, 923-930.	2.6	27
22	Mechanistic Modeling of Reversed-Phase Chromatography of Insulins with Potassium Chloride and Ethanol as Mobile-Phase Modulators. <i>ACS Omega</i> , 2017, 2, 136-146.	3.5	6
23	Discretized multi-level elution trajectory: A proof-of-concept demonstration. <i>Journal of Chromatography A</i> , 2017, 1481, 73-81.	3.7	13
24	Development and Optimization of a Single Column Analog Model for a Multi-Column Counter-Current Solvent Gradient Purification Process. <i>Computer Aided Chemical Engineering</i> , 2017, , 187-192.	0.5	0
25	Method development in inverse modeling applied to supercritical fluid extraction of lipids. <i>Journal of Supercritical Fluids</i> , 2016, 111, 14-27.	3.2	8
26	Prediction of reversible IgG1 aggregation occurring in a size exclusion chromatography column is enabled through a model based approach. <i>Biotechnology Journal</i> , 2015, 10, 1814-1821.	3.5	4
27	Model-Based Comparison of Antibody Dimerization in Continuous and Batch-Wise Downstream Processing. <i>Antibodies</i> , 2015, 4, 157-169.	2.5	8
28	Combined effects of potassium chloride and ethanol as mobile phase modulators on hydrophobic interaction and reversed-phase chromatography of three insulin variants. <i>Journal of Chromatography A</i> , 2015, 1381, 64-73.	3.7	16
29	Multi-objective optimization of chromatographic rare earth element separation. <i>Journal of Chromatography A</i> , 2015, 1416, 57-63.	3.7	9
30	Modeling Preparative Chromatographic Separation of Heavy Rare Earth Elements and Optimization of Thulium Purification. <i>Advances in Materials Physics and Chemistry</i> , 2015, 05, 151-160.	0.7	8
31	Experimental productivity rate optimization of rare earth element separation through preparative solid phase extraction chromatography. <i>Journal of Chromatography A</i> , 2014, 1348, 47-51.	3.7	24
32	Model-Based Comparison of Batch and Continuous Preparative Chromatography in the Separation of Rare Earth Elements. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 16485-16493.	3.7	15
33	Modeling and robust pooling design of a preparative cation-exchange chromatography step for purification of monoclonal antibody monomer from aggregates. <i>Journal of Chromatography A</i> , 2014, 1359, 170-181.	3.7	46
34	Model-based design and integration of a two-step biopharmaceutical production process. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 1989-1996.	3.4	5
35	Prediction of IgG1 aggregation in solution. <i>Biotechnology Journal</i> , 2014, 9, 800-804.	3.5	5
36	Model-based risk analysis of coupled process steps. <i>Biotechnology and Bioengineering</i> , 2013, 110, 2462-2470.	3.3	8

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37	Effects of uncertainties in experimental conditions on the estimation of adsorption model parameters in preparative chromatography. <i>Computers and Chemical Engineering</i> , 2013, 55, 148-157.	3.8	32
38	Numerical Analysis of Model Parameter Uncertainties as a Result of Experimental Uncertainty – An Example from Preparative Chromatography. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 991-995.	0.4	3
39	Modelling and optimisation of preparative chromatographic purification of europium. <i>Journal of Chromatography A</i> , 2012, 1220, 21-25.	3.7	18
40	Optimization of preparative chromatographic separation of multiple rare earth elements. <i>Journal of Chromatography A</i> , 2011, 1218, 9155-9161.	3.7	20
41	Pooling control in variable preparative chromatography processes. <i>Bioprocess and Biosystems Engineering</i> , 2010, 33, 375-382.	3.4	15
42	Model based robustness analysis of an ion-exchange chromatography step. <i>Journal of Chromatography A</i> , 2007, 1138, 109-119.	3.7	36
43	Modeling and optimization of preparative reversed-phase liquid chromatography for insulin purification. <i>Journal of Chromatography A</i> , 2007, 1162, 41-49.	3.7	31
44	Constrained optimization of a preparative ion-exchange step for antibody purification. <i>Journal of Chromatography A</i> , 2006, 1113, 92-100.	3.7	30
45	Aspects of estimating parameter dependencies in a detailed chromatography model based on frontal experiments. <i>Process Biochemistry</i> , 2006, 41, 1812-1821.	3.7	10
46	Estimation of adsorption parameters in a detailed affinity chromatography model based on shallow bed experiments. <i>Process Biochemistry</i> , 2005, 40, 1649-1659.	3.7	12
47	Using computer simulation to assist in the robustness analysis of an ion-exchange chromatography step. <i>Journal of Chromatography A</i> , 2005, 1063, 99-109.	3.7	40
48	Optimisation and robustness analysis of a hydrophobic interaction chromatography step. <i>Journal of Chromatography A</i> , 2005, 1099, 157-166.	3.7	52
49	Coupled diffusion and adsorption effects for multiple proteins in agarose gel. <i>AIChE Journal</i> , 2004, 50, 3006-3018.	3.6	18
50	Model-based optimization of a preparative ion-exchange step for antibody purification. <i>Journal of Chromatography A</i> , 2004, 1055, 29-39.	3.7	65
51	Methodologies for model calibration to assist the design of a preparative ion-exchange step for antibody purification. <i>Journal of Chromatography A</i> , 2004, 1033, 71-82.	3.7	30