

Astrid DÃ¼rrauer

List of Publications by Year in descending order

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37
papers

730
citations

623734

14
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552781

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all docs

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docs citations

37
times ranked

718
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of hydrodynamics and volumetric power input in microtiter plates for the scale-up of downstream operations. <i>Biotechnology and Bioengineering</i> , 2022, 119, 523-534.	3.3	6
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	Separation of truncated basic fibroblast growth factor from the full-length protein by hydrophobic interaction chromatography. <i>Separation and Purification Technology</i> , 2021, 254, 117564.	7.9	6
4	Technology transfer of a monitoring system to predict product concentration and purity of biopharmaceuticals in real-time during chromatographic separation. <i>Biotechnology and Bioengineering</i> , 2021, 118, 3941-3952.	3.3	3
5	Hybrid modeling reduces experimental effort to predict performance of serial and parallel single-pass tangential flow filtration. <i>Separation and Purification Technology</i> , 2021, 276, 119277.	7.9	16
6	Hybrid Modeling for Simultaneous Prediction of Flux, Rejection Factor and Concentration in Two-Component Crossflow Ultrafiltration. <i>Processes</i> , 2020, 8, 1625.	2.8	7
7	Hybrid modeling of cross-flow filtration: Predicting the flux evolution and duration of ultrafiltration processes. <i>Separation and Purification Technology</i> , 2020, 248, 117064.	7.9	32
8	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
9	A two-step process for capture and purification of human basic fibroblast growth factor from <i>E. coli</i> homogenate: Yield versus endotoxin clearance. <i>Protein Expression and Purification</i> , 2019, 153, 70-82.	1.3	23
10	Real-time monitoring and model-based prediction of purity and quantity during a chromatographic capture of fibroblast growth factor 2. <i>Biotechnology and Bioengineering</i> , 2019, 116, 1999-2009.	3.3	29
11	Prediction of the Quantity and Purity of an Antibody Capture Process in Real Time. <i>Biotechnology Journal</i> , 2019, 14, e1800521.	3.5	25
12	Osmolality is a predictor for model-based real time monitoring of concentration in protein chromatography. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 95, 1146.	3.2	8
13	Influence of cavitation and high shear stress on HSA aggregation behavior. <i>Engineering in Life Sciences</i> , 2018, 18, 169-178.	3.6	31
14	Impact of Cavitation, High Shear Stress and Air/Liquid Interfaces on Protein Aggregation. <i>Biotechnology Journal</i> , 2018, 13, e1800062.	3.5	86
15	Integrated process development – quality by design compliant evaluation of upstream variations at the microscale level. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 2021-2032.	3.2	4
16	Prediction tool for loading, isocratic elution, gradient elution and scaling up of ion exchange chromatography of proteins. <i>Journal of Chromatography A</i> , 2018, 1566, 89-101.	3.7	18
17	Microscale disruption of microorganisms for parallelized process development. <i>Biotechnology Journal</i> , 2017, 12, 1600579.	3.5	5
18	Integrated process development – a robust, rapid method for inclusion body harvesting and processing at the microscale level. <i>Preparative Biochemistry and Biotechnology</i> , 2017, 47, 874-880.	1.9	2

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19	Trend analysis of performance parameters of pre-packed columns for protein chromatography over a time span of ten years. <i>Journal of Chromatography A</i> , 2016, 1465, 63-70.	3.7	12
20	Mixing at the microscale: Power input in shaken microtiter plates. <i>Biotechnology Journal</i> , 2016, 11, 1539-1549.	3.5	16
21	Npro fusion technology: On-column complementation to improve efficiency in biopharmaceutical production. <i>Protein Expression and Purification</i> , 2016, 120, 42-50.	1.3	6
22	Design and optimization of protein refolding with crossflow ultrafiltration. <i>Chemical Engineering Science</i> , 2015, 130, 290-300.	3.8	9
23	Prediction of inclusion body solubilization from shaken to stirred reactors. <i>Biotechnology and Bioengineering</i> , 2014, 111, 84-94.	3.3	14
24	Getting ready for PAT: Scale up and inline monitoring of protein refolding of Npro fusion proteins. <i>Process Biochemistry</i> , 2014, 49, 1113-1121.	3.7	27
25	Mechanism and model for solubilization of inclusion bodies. <i>Chemical Engineering Science</i> , 2013, 101, 631-641.	3.8	13
26	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
27	NproAutoprotease Fusion Technology: Development, Characteristics, and Influential Factors. <i>Separation Science and Technology</i> , 2010, 45, 2194-2209.	2.5	10
28	Refolding of N ^{pro} fusion proteins. <i>Biotechnology and Bioengineering</i> , 2009, 104, 774-784.	3.3	30
29	EDDIE fusion proteins: Triggering autoproteolytic cleavage. <i>Process Biochemistry</i> , 2009, 44, 1217-1224.	3.7	18
30	High-throughput system for determining dissolution kinetics of inclusion bodies. <i>Biotechnology Journal</i> , 2009, 4, 722-729.	3.5	12
31	Yeast cell surface display system for determination of humoral response to active immunization with a monoclonal antibody against EpCAM. <i>Journal of Proteomics</i> , 2008, 70, 1109-1115.	2.4	2
32	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
33	Peptide arrays for the determination of humoral responses induced by active immunization with a monoclonal antibody against EpCAM. <i>Journal of Immunological Methods</i> , 2006, 317, 114-125.	1.4	4
34	Adsorption isotherms of 17 β -estradiol on granular activated carbon (GAC). <i>Chemosphere</i> , 2001, 44, 1573-1579.	8.2	65
35	Characterisation of the rubber elongation factor from ammoniated latex by electrophoresis and mass spectrometry. <i>Journal of Chromatography A</i> , 2000, 890, 145-158.	3.7	14
36	Monitoring of estrogen mimics by a recombinant yeast assay: synergy between natural and synthetic compounds?. <i>Science of the Total Environment</i> , 1999, 225, 69-79.	8.0	53

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37	Regulation of human estrogen receptor by phytoestrogens in yeast and human cells. Journal of Steroid Biochemistry and Molecular Biology, 1998, 67, 421-429.	2.5	82