

Suzanne S Farid

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

106
papers

2,266
citations

24
h-index

44
g-index

109
ext. papers

2,632
ext. citations

3.4
avg, IF

5.49
L-index

#	Paper	IF	Citations
106	Data integrity within the biopharmaceutical sector in the era of Industry 4.0.. <i>Biotechnology Journal</i> , 2022 , e2100609	5.6	1
105	Machine learning application in personalised lung cancer recurrence and survivability prediction.. <i>Computational and Structural Biotechnology Journal</i> , 2022 , 20, 1811-1820	6.8	0
104	A decade in review: use of data analytics within the biopharmaceutical sector.. <i>Current Opinion in Chemical Engineering</i> , 2021 , 34, None	5.4	2
103	A common framework for integrated and continuous biomanufacturing. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 1721-1735	4.9	9
102	End-to-end continuous bioprocessing: Impact on facility design, cost of goods, and cost of development for monoclonal antibodies. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 3468-3485	4.9	3
101	Lentiviral vector bioprocess economics for cell and gene therapy commercialization. <i>Biochemical Engineering Journal</i> , 2021 , 167, 107868	4.2	8
100	Process economics evaluation of cell-free synthesis for the commercial manufacture of antibody drug conjugates. <i>Biotechnology Journal</i> , 2021 , 16, e2000238	5.6	1
99	Machine learning reveals hidden stability code in protein native fluorescence. <i>Computational and Structural Biotechnology Journal</i> , 2021 , 19, 2750-2760	6.8	0
98	Advanced control strategies for bioprocess chromatography: Challenges and opportunities for intensified processes and next generation products. <i>Journal of Chromatography A</i> , 2021 , 1639, 461914	4.5	6
97	Decisional tool for cost of goods analysis of bioartificial liver devices for routine clinical use. <i>Cytotherapy</i> , 2021 , 23, 683-693	4.8	
96	Gene therapy process change evaluation framework: Transient transfection and stable producer cell line comparison. <i>Biochemical Engineering Journal</i> , 2021 , 176, 108202	4.2	0
95	Benchmarking biopharmaceutical process development and manufacturing cost contributions to R&D. <i>MABs</i> , 2020 , 12, 1754999	6.6	14
94	Autologous CAR T-cell therapies supply chain: challenges and opportunities?. <i>Cancer Gene Therapy</i> , 2020 , 27, 799-809	5.4	25
93	Multivariate Data Analysis Methodology to Solve Data Challenges Related to Scale-Up Model Validation and Missing Data on a Micro-Bioreactor System. <i>Biotechnology Journal</i> , 2020 , 15, e1800684	5.6	7
92	Estimating capital investment and facility footprint in cell therapy facilities. <i>Biochemical Engineering Journal</i> , 2020 , 155, 107439	4.2	4
91	High-Throughput Raman Spectroscopy Combined with Innovate Data Analysis Workflow to Enhance Biopharmaceutical Process Development. <i>Processes</i> , 2020 , 8, 1179	2.9	6
90	How should we evaluate the cost-effectiveness of CAR T-cell therapies?. <i>Health Policy and Technology</i> , 2020 , 9, 271-273	4.8	0

89	Modern day monitoring and control challenges outlined on an industrial-scale benchmark fermentation process. <i>Computers and Chemical Engineering</i> , 2019 , 130, 106471	4	7
88	Multi-objective biopharma capacity planning under uncertainty using a flexible genetic algorithm approach. <i>Computers and Chemical Engineering</i> , 2019 , 128, 35-52	4	3
87	High throughput process development workflow with advanced decision-support for antibody purification. <i>Journal of Chromatography A</i> , 2019 , 1596, 104-116	4.5	6
86	Dynamic scheduling of multi-product continuous biopharmaceutical facilities: A hyper-heuristic framework. <i>Computers and Chemical Engineering</i> , 2019 , 125, 71-88	4	8
85	Potential of Continuous Manufacturing for Liposomal Drug Products. <i>Biotechnology Journal</i> , 2019 , 14, e1700740	5.6	21
84	Fast genetic algorithm approaches to solving discrete-time mixed integer linear programming problems of capacity planning and scheduling of biopharmaceutical manufacture. <i>Computers and Chemical Engineering</i> , 2019 , 121, 212-223	4	18
83	On-Line Control of Glucose Concentration in High-Yielding Mammalian Cell Cultures Enabled Through Oxygen Transfer Rate Measurements. <i>Biotechnology Journal</i> , 2018 , 13, e1700607	5.6	25
82	Technologies for large-scale umbilical cord-derived MSC expansion: Experimental performance and cost of goods analysis. <i>Biochemical Engineering Journal</i> , 2018 , 135, 36-48	4.2	32
81	Impact of allogeneic stem cell manufacturing decisions on cost of goods, process robustness and reimbursement. <i>Biochemical Engineering Journal</i> , 2018 , 137, 132-151	4.2	28
80	Bioprocesses for Cell Therapies 2018 , 899-930		3
79	Cost-effective bioprocess design for the manufacture of allogeneic CAR-T cell therapies using a decisional tool with multi-attribute decision-making analysis. <i>Biochemical Engineering Journal</i> , 2018 , 137, 192-204	4.2	14
78	An automated laboratory-scale methodology for the generation of sheared mammalian cell culture samples. <i>Biotechnology Journal</i> , 2017 , 12, 1600730	5.6	1
77	Predicting performance of constant flow depth filtration using constant pressure filtration data. <i>Journal of Membrane Science</i> , 2017 , 531, 138-147	9.6	17
76	Advanced multivariate data analysis to determine the root cause of trisulfide bond formation in a novel antibody-peptide fusion. <i>Biotechnology and Bioengineering</i> , 2017 , 114, 2222-2234	4.9	11
75	Integrated continuous bioprocessing: Economic, operational, and environmental feasibility for clinical and commercial antibody manufacture. <i>Biotechnology Progress</i> , 2017 , 33, 854-866	2.8	91
74	Multi-criteria manufacturability indices for ranking high-concentration monoclonal antibody formulations. <i>Biotechnology and Bioengineering</i> , 2017 , 114, 2043-2056	4.9	19
73	An integrated experimental and economic evaluation of cell therapy affinity purification technologies. <i>Regenerative Medicine</i> , 2017 , 12, 397-417	2.5	12
72	PROCESS ECONOMIC DRIVERS IN INDUSTRIAL MONOCLONAL ANTIBODY MANUFACTURE 2017 , 445-466		2

71	A roadmap for cost-of-goods planning to guide economic production of cell therapy products. <i>Cytotherapy</i> , 2017 , 19, 1383-1391	4.8	39
70	Continuous-Time Heuristic Model for Medium-Term Capacity Planning of a Multi-Suite, Multi-Product Biopharmaceutical Facility. <i>Computer Aided Chemical Engineering</i> , 2017 , 40, 1303-1308	0.6	1
69	A new lot sizing and scheduling heuristic for multi-site biopharmaceutical production. <i>Journal of Heuristics</i> , 2017 , 23, 231-256	1.9	5
68	Integrated Optimization of Upstream and Downstream Processing in Biopharmaceutical Manufacturing under Uncertainty: A Chance Constrained Programming Approach. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 4599-4612	3.9	21
67	Process change evaluation framework for allogeneic cell therapies: impact on drug development and commercialization. <i>Regenerative Medicine</i> , 2016 , 11, 287-305	2.5	14
66	A scale-down mimic for mapping the process performance of centrifugation, depth and sterile filtration. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 1934-41	4.9	11
65	Industry 4.0: a vision for personalized medicine supply chains?. <i>Cell & Gene Therapy Insights</i> , 2016 , 2, 263-270	3.0	34
64	Patient-specific hiPSC bioprocessing for drug screening: Bioprocess economics and optimisation. <i>Biochemical Engineering Journal</i> , 2016 , 108, 84-97	4.2	21
63	Integrated economic and experimental framework for screening of primary recovery technologies for high cell density CHO cultures. <i>Biotechnology Journal</i> , 2016 , 11, 899-909	5.6	8
62	Allogeneic cell therapy bioprocess economics and optimization: downstream processing decisions. <i>Regenerative Medicine</i> , 2015 , 10, 591-609	2.5	52
61	Human pluripotent stem cell-derived products: advances towards robust, scalable and cost-effective manufacturing strategies. <i>Biotechnology Journal</i> , 2015 , 10, 83-95	5.6	68
60	Representative mammalian cell culture test materials for assessment of primary recovery technologies: a rapid method with industrial applicability. <i>Biotechnology Journal</i> , 2015 , 10, 162-70	5.6	4
59	Manufacturability Indices for High-Concentration Monoclonal Antibody Formulations. <i>Computer Aided Chemical Engineering</i> , 2015 , 37, 2147-2152	0.6	2
58	Mathematical programming approaches for downstream processing optimisation of biopharmaceuticals. <i>Chemical Engineering Research and Design</i> , 2015 , 94, 18-31	5.5	13
57	An Optimisation-based Approach for Biopharmaceutical Manufacturing. <i>Computer Aided Chemical Engineering</i> , 2014 , 33, 1183-1188	0.6	
56	Optimising chromatography strategies of antibody purification processes by mixed integer fractional programming techniques. <i>Computers and Chemical Engineering</i> , 2014 , 68, 151-164	4	21
55	Data mining for rapid prediction of facility fit and debottlenecking of biomanufacturing facilities. <i>Journal of Biotechnology</i> , 2014 , 179, 17-25	3.7	21
54	Capacity planning for batch and perfusion bioprocesses across multiple biopharmaceutical facilities. <i>Biotechnology Progress</i> , 2014 , 30, 594-606	2.8	29

53	Multiobjective evolutionary optimization in antibody purification process design. <i>Biochemical Engineering Journal</i> , 2014 , 91, 250-264	4.2	12
52	Allogeneic cell therapy bioprocess economics and optimization: single-use cell expansion technologies. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 69-83	4.9	128
51	Closed-loop optimization of chromatography column sizing strategies in biopharmaceutical manufacture. <i>Journal of Chemical Technology and Biotechnology</i> , 2014 , 89, 1481-1490	3.5	17
50	Large Scale Suspension Culture of Mammalian Cells 2014 , 410-462		2
49	Tuning Evolutionary Multiobjective Optimization for Closed-Loop Estimation of Chromatographic Operating Conditions. <i>Lecture Notes in Computer Science</i> , 2014 , 741-750	0.9	1
48	A Multiobjective Evolutionary Optimization Framework for Protein Purification Process Design. <i>Lecture Notes in Computer Science</i> , 2014 , 498-507	0.9	1
47	Optimising the design and operation of semi-continuous affinity chromatography for clinical and commercial manufacture. <i>Journal of Chromatography A</i> , 2013 , 1284, 17-27	4.5	102
46	Fed-batch and perfusion culture processes: economic, environmental, and operational feasibility under uncertainty. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 206-19	4.9	194
45	Integration of stochastic simulation with multivariate analysis: short-term facility fit prediction. <i>Biotechnology Progress</i> , 2013 , 29, 368-77	2.8	10
44	Designing cost-effective biopharmaceutical facilities using mixed-integer optimization. <i>Biotechnology Progress</i> , 2013 , 29, 1472-83	2.8	21
43	Prediction of biopharmaceutical facility fit issues using decision tree analysis. <i>Computer Aided Chemical Engineering</i> , 2013 , 32, 61-66	0.6	2
42	Mixed integer optimisation of antibody purification processes. <i>Computer Aided Chemical Engineering</i> , 2013 , 32, 157-162	0.6	6
41	Evaluating and Visualizing the Cost-Effectiveness and Robustness of Biopharmaceutical Manufacturing Strategies 2012 , 717-741		
40	A multi-level meta-heuristic algorithm for the optimisation of antibody purification processes. <i>Biochemical Engineering Journal</i> , 2012 , 69, 144-154	4.2	25
39	Computer-Aided Design and Evaluation of Batch and Continuous Multi-Mode Biopharmaceutical Manufacturing Processes. <i>Computer Aided Chemical Engineering</i> , 2012 , 30, 487-491	0.6	1
38	Decisional tool to assess current and future process robustness in an antibody purification facility. <i>Biotechnology Progress</i> , 2012 , 28, 1019-28	2.8	20
37	Production planning of batch and semi-continuous bioprocesses across multiple biopharmaceutical facilities. <i>Computer Aided Chemical Engineering</i> , 2012 , 30, 377-381	0.6	1
36	Efficient Discovery of Chromatography Equipment Sizing Strategies for Antibody Purification Processes Using Evolutionary Computing. <i>Lecture Notes in Computer Science</i> , 2012 , 468-477	0.9	4

35	Toward Greener Therapeutic Proteins 2011 , 197-219		2
34	How implementation of Quality by Design and advances in Biochemical Engineering are enabling efficient bioprocess development and manufacture. <i>Journal of Chemical Technology and Biotechnology</i> , 2011 , 86, 1125-1129	3.5	21
33	Application of quality by design principles to the development and technology transfer of a major process improvement for the manufacture of a recombinant protein. <i>Biotechnology Progress</i> , 2011 , 27, 1718-29	2.8	28
32	Designing multi-product biopharmaceutical facilities using evolutionary algorithms. <i>Computer Aided Chemical Engineering</i> , 2011 , 286-290	0.6	3
31	Integration of stochastic simulation with advanced multivariate and visualisation analyses for rapid prediction of facility fit issues in biopharmaceutical processes. <i>Computer Aided Chemical Engineering</i> , 2011 , 1356-1360	0.6	2
30	Windows of operation for bioreactor design for the controlled formation of tissue-engineered arteries. <i>Biotechnology Progress</i> , 2009 , 25, 842-53	2.8	3
29	Combinatorial Optimisation Algorithms for Strategic Biopharmaceutical Portfolio & Capacity Management. <i>Computer Aided Chemical Engineering</i> , 2009 , 26, 1063-1068	0.6	
28	Dynamic Simulation Framework for Design of Lean Biopharmaceutical Manufacturing Operations. <i>Computer Aided Chemical Engineering</i> , 2009 , 26, 1069-1073	0.6	7
27	Strategic biopharmaceutical portfolio development: an analysis of constraint-induced implications. <i>Biotechnology Progress</i> , 2008 , 24, 698-713	2.8	18
26	Stochastic Combinatorial Optimization Approach to Biopharmaceutical Portfolio Management. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 8762-8774	3.9	13
25	Modelling biopharmaceutical manufacture: Design and implementation of SimBiopharma. <i>Computers and Chemical Engineering</i> , 2007 , 31, 1141-1158	4	39
24	A multi-criteria decision-making framework for the selection of strategies for acquiring biopharmaceutical manufacturing capacity. <i>Computers and Chemical Engineering</i> , 2007 , 31, 889-901	4	19
23	Process economics of industrial monoclonal antibody manufacture. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007 , 848, 8-18	3.2	262
22	Multiobjective long-term planning of biopharmaceutical manufacturing facilities. <i>Biotechnology Progress</i> , 2007 , 23, 1383-93	2.8	19
21	Retrofit Decisions within the Biopharmaceutical Industry. <i>Food and Bioprocesses Processing</i> , 2006 , 84, 84-89	4.9	4
20	A computer-aided approach to compare the production economics of fed-batch and perfusion culture under uncertainty. <i>Biotechnology and Bioengineering</i> , 2006 , 93, 687-97	4.9	72
19	Shear stress analysis of mammalian cell suspensions for prediction of industrial centrifugation and its verification. <i>Biotechnology and Bioengineering</i> , 2006 , 95, 483-91	4.9	96
18	Integrated approach to improving the value potential of biopharmaceutical R&D portfolios while mitigating risk. <i>Journal of Chemical Technology and Biotechnology</i> , 2006 , 81, 1705-1714	3.5	13

17	Medium term planning of biopharmaceutical manufacture under uncertainty. <i>Computer Aided Chemical Engineering</i> , 2006 , 21, 2069-2074	0.6	2
16	Established bioprocesses for producing antibodies as a basis for future planning. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2006 , 101, 1-42	1.7	21
15	Medium Term Planning of Biopharmaceutical Manufacture with Uncertain Fermentation Titrers. <i>Biotechnology Progress</i> , 2006 , 22, 1630-1636	2.8	13
14	Medium term planning of biopharmaceutical manufacture with uncertain fermentation titers. <i>Biotechnology Progress</i> , 2006 , 22, 1630-6	2.8	2
13	Application of a decision-support tool to assess pooling strategies in perfusion culture processes under uncertainty. <i>Biotechnology Progress</i> , 2005 , 21, 1231-42	2.8	44
12	A Software Tool to Assist Business-Process Decision-Making in the Biopharmaceutical Industry. <i>Biotechnology Progress</i> , 2005 , 21, 320	2.8	3
11	Decision-support tool for assessing biomanufacturing strategies under uncertainty: stainless steel versus disposable equipment for clinical trial material preparation. <i>Biotechnology Progress</i> , 2005 , 21, 486-97	2.8	86
10	Combining multiple quantitative and qualitative goals when assessing biomanufacturing strategies under uncertainty. <i>Biotechnology Progress</i> , 2005 , 21, 1183-91	2.8	25
9	Modelling of the biopharmaceutical drug development pathway and portfolio management. <i>Computers and Chemical Engineering</i> , 2005 , 29, 1357-1368	4	34
8	A software tool to assist business-process decision-making in the biopharmaceutical industry. <i>Biotechnology Progress</i> , 2004 , 20, 1096-102	2.8	13
7	A decisional-support tool to model the impact of regulatory compliance activities in the biomanufacturing industry. <i>Computers and Chemical Engineering</i> , 2004 , 28, 727-735	4	15
6	A tool for modelling the impact of regulatory compliance activities on the biomanufacturing industry. <i>Computer Aided Chemical Engineering</i> , 2003 , 1109-1114	0.6	
5	Decision-Support Tool for Risk Analysis in Biopharmaceutical Manufacture. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2001 , 34, 161-165		
4	A hierarchical framework for modelling biopharmaceutical manufacture to address process and business needs. <i>Computer Aided Chemical Engineering</i> , 2000 , 673-678	0.6	
3	A tool for modeling strategic decisions in cell culture manufacturing. <i>Biotechnology Progress</i> , 2000 , 16, 829-36	2.8	30
2	Process Economic Drivers in Industrial Monoclonal Antibody Manufacture 239-261		15
1	Evaluating the Economic and Operational Feasibility of Continuous Processes for Monoclonal Antibodies 433-456		56