Sara Badr

List of Publications by Year
in descending order

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21 papers	318 citations	1039880 9 h-index	839398 18 g-index
23 all docs	23 docs citations	23 times ranked	349 citing authors

#	Article	IF	Citations
1	Sustainability assessment of succinic acid production technologies from biomass using metabolic engineering. Energy and Environmental Science, 2016, 9, 2794-2805.	15.6	93
2	Computer-aided molecular design and selection of CO₂ capture solvents based on thermodynamics, reactivity and sustainability. Molecular Systems Design and Engineering, 2016, 1, 313-334.	1.7	56
3	A framework for the environmental, health and safety hazard assessment for amine-based post combustion CO 2 capture. International Journal of Greenhouse Gas Control, 2017, 56, 202-220.	2.3	25
4	Integrated design of biopharmaceutical manufacturing processes: Operation modes and process configurations for monoclonal antibody production. Computers and Chemical Engineering, 2021, 153, 107422.	2.0	23
5	Toward Sustainable Solvent-Based Postcombustion CO2 Capture. Computer Aided Chemical Engineering, 2015, , 279-310.	0.3	20
6	A PSE perspective for the efficient production of monoclonal antibodies: integration of process, cell, and product design aspects. Current Opinion in Chemical Engineering, 2020, 27, 121-128.	3.8	20
7	Costâ€"Benefit Analysis of Monoclonal Antibody Cultivation Scenarios in Terms of Life Cycle Environmental Impact and Operating Cost. ACS Sustainable Chemistry and Engineering, 2021, 9, 14012-14021.	3.2	16
8	Multi-stage and multi-objective decision-support tool for biopharmaceutical drug product manufacturing: Equipment technology evaluation. Chemical Engineering Research and Design, 2020, 161, 240-252.	2.7	13
9	A graphical method for carbon dioxide emissions reduction in multiâ€"product plants. Chemical Engineering Research and Design, 2020, 133, 51-63.	2.7	10
10	Data-driven anomaly detection and diagnostics for changeover processes in biopharmaceutical drug product manufacturing. Chemical Engineering Research and Design, 2021, 167, 53-62.	2.7	8
11	Analysis of the Effects of Process Parameters on Start-Up Operation in Continuous Wet Granulation. Processes, 2021, 9, 1502.	1.3	8
12	Alternative generation and multiobjective evaluation using a design framework: Case study on sterile filling processes of biopharmaceuticals. Computers and Chemical Engineering, 2019, 123, 286-299.	2.0	6
13	Approach for Multicriteria Equipment Redesign in Sterile Manufacturing of Biopharmaceuticals. Journal of Pharmaceutical Innovation, 2020, 15, 15-25.	1.1	4
14	Online Decision-Support Tool â€œTECHoiceâ€•for the Equipment Technology Choice in Sterile Filling Processes of Biopharmaceuticals. Processes, 2019, 7, 448.	1.3	3
15	A systematic techno-economic approach to decide between continuous and batch operation modes for injectable manufacturing. International Journal of Pharmaceutics, 2022, 613, 121353.	2.6	3
16	Effect of flow direction on the performance of radial flow catalytic reactors. Asia-Pacific Journal of Chemical Engineering, 2012, 7, 307-316.	0.8	2
17	Sustainability assessment using local lazy learning: The case of post-combustion CO 2 capture solvents. Computer Aided Chemical Engineering, 2018, , 823-828.	0.3	2
18	Economic Model for Lot-Size Determination in Pharmaceutical Injectable Manufacturing. Journal of Pharmaceutical Innovation, 2021, 16, 38-52.	1.1	2

#	Article	IF	Citations
19	Determination of critical decision points for COVID-19 measures in Japan. Scientific Reports, 2021, 11, 16416.	1.6	2
20	Model-based Analysis of Waste Management Systems through a Natural Language Approach. Computer Aided Chemical Engineering, 2015, 37, 977-982.	0.3	1
21	Combined basic and fine chemical biorefinery concepts with integration of processes at different technology readiness levels. Computer Aided Chemical Engineering, 2018, 43, 1577-1582.	0.3	0