

Ana Carvalho

List of Publications by Year in descending order

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67
papers

1,785
citations

394286

19
h-index

276775

41
g-index

69
all docs

69
docs citations

69
times ranked

1739
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards supply chain sustainability: economic, environmental and social design and planning. Journal of Cleaner Production, 2015, 105, 14-27.	4.6	313
2	Opportunities and challenges in sustainable supply chain: An operations research perspective. European Journal of Operational Research, 2018, 268, 399-431.	3.5	262
3	Quantitative indicators for social sustainability assessment of supply chains. Journal of Cleaner Production, 2018, 180, 748-768.	4.6	138
4	Sustainable supply chains: An integrated modeling approach under uncertainty. Omega, 2018, 77, 32-57.	3.6	123
5	Design of sustainable chemical processes: Systematic retrofit analysis generation and evaluation of alternatives. Chemical Engineering Research and Design, 2008, 86, 328-346.	2.7	110
6	SustainPro – A tool for systematic process analysis, generation and evaluation of sustainable design alternatives. Computers and Chemical Engineering, 2013, 50, 8-27.	2.0	94
7	From a literature review to a framework for environmental process impact assessment index. Journal of Cleaner Production, 2014, 64, 36-62.	4.6	80
8	Incorporating social aspects in sustainable supply chains: Trends and future directions. Journal of Cleaner Production, 2019, 237, 117500.	4.6	70
9	The Wicked Character of Sustainable Supply Chain Management: Evidence from Sustainability Reports. Business Strategy and the Environment, 2016, 25, 449-477.	8.5	55
10	Social sustainability management in the apparel supply chains. Journal of Cleaner Production, 2021, 280, 124214.	4.6	54
11	Assessment and optimization of sustainable forest wood supply chains – A systematic literature review. Forest Policy and Economics, 2019, 105, 112-135.	1.5	45
12	Assessing the environmental sustainability of early stage design for bioprocesses under uncertainties: An analysis of glycerol bioconversion. Journal of Cleaner Production, 2016, 139, 1245-1260.	4.6	35
13	A framework for techno-economic & environmental sustainability analysis by risk assessment for conceptual process evaluation. Biochemical Engineering Journal, 2016, 116, 146-156.	1.8	34
14	Social life cycle assessment methodology for evaluating production process design: Biorefinery case study. Journal of Cleaner Production, 2019, 238, 117718.	4.6	31
15	Design of batch operations: Systematic methodology for generation and analysis of sustainable alternatives. Computers and Chemical Engineering, 2009, 33, 2075-2090.	2.0	29
16	Using Green Chemistry and Engineering Principles To Design, Assess, and Retrofit Chemical Processes for Sustainability. ACS Sustainable Chemistry and Engineering, 2016, 4, 6208-6221.	3.2	27
17	Life cycle assessment in chemical industry – a review. Current Opinion in Chemical Engineering, 2019, 26, 139-147.	3.8	25
18	A combined heuristic and indicator-based methodology for design of sustainable chemical process plants. Computers and Chemical Engineering, 2011, 35, 1343-1358.	2.0	24

#	ARTICLE	IF	CITATIONS
19	Quantitative indicators for social sustainability assessment of society and product responsibility aspects in supply chains. <i>Journal of International Studies</i> , 2017, 10, 9-36.	0.7	23
20	Optimal Design and Planning of Glycerol-Based Biorefinery Supply Chains under Uncertainty. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 11870-11893.	1.8	18
21	Environmental monetization and risk assessment in supply chain design and planning. <i>Journal of Cleaner Production</i> , 2020, 270, 121552.	4.6	16
22	The vehicle routing problem with backhauls towards a sustainability perspective: a review. <i>Top</i> , 2020, 28, 358-401.	1.1	15
23	Roadmap for Environmental Impact Retrofit in chemical processes through the application of Life Cycle Assessment methods. <i>Journal of Cleaner Production</i> , 2015, 90, 128-141.	4.6	14
24	The wicked problem of sustainable development in supply chains. <i>Business Strategy and the Environment</i> , 2022, 31, 46-58.	8.5	14
25	Supply Chain Optimization of Integrated Glycerol Biorefinery: <i>GlyThink</i> Model Development and Application. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 6711-6727.	1.8	13
26	HOW TO DESIGN AND PLAN SUSTAINABLE SUPPLY CHAINS THROUGH OPTIMIZATION MODELS?. <i>Pesquisa Operacional</i> , 2018, 38, 363-388.	0.1	12
27	Environmental Assessment of a Coal Power Plant with Carbon Dioxide Capture System Based on the Activated Carbon Adsorption Process: A Case Study of the Czech Republic. <i>Energies</i> , 2020, 13, 2251.	1.6	8
28	Design of sustainable processes: Systematic generation & evaluation of alternatives. <i>Computer Aided Chemical Engineering</i> , 2006, , 817-822.	0.3	7
29	How to assess social aspects in supply chains?. <i>Computer Aided Chemical Engineering</i> , 2014, , 801-806.	0.3	7
30	An economic and environmental comparison between forest wood products “Uncoated woodfree paper, natural cork stoppers and particle boards. <i>Journal of Cleaner Production</i> , 2021, 296, 126469.	4.6	7
31	Sustainable Supply Chain: Monetization of Environmental Impacts. <i>Computer Aided Chemical Engineering</i> , 2018, 43, 773-778.	0.3	5
32	Green Supply Chain: Integrating Financial Risk Measures while Monetizing Environmental Impacts. <i>Computer Aided Chemical Engineering</i> , 2019, 46, 1549-1554.	0.3	5
33	A Lean Approach to Developing Sustainable Supply Chains. <i>Sustainability</i> , 2021, 13, 3714.	1.6	5
34	A hybrid simulation approach applied in sustainability performance assessment in make-to-order supply chains: The case of a commercial aircraft manufacturer. <i>Journal of Simulation</i> , 2023, 17, 32-57.	1.0	5
35	Supply chain design and planning accounting for the Triple Bottom Line. <i>Computer Aided Chemical Engineering</i> , 2015, 37, 1841-1846.	0.3	4
36	Design and Planning of Sustainable Supply Chains. <i>Computer Aided Chemical Engineering</i> , 2015, 36, 333-353.	0.3	4

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37	Sustainable batch process retrofit design under uncertainty – An integrated methodology. Computers and Chemical Engineering, 2017, 102, 226-237.	2.0	4
38	Life Cycle Assessment of calcium carbonate loop CO2 capture technology for brown coal power plant unit of the Czech Republic. Computer Aided Chemical Engineering, 2018, , 253-258.	0.3	4
39	Social Life Cycle Assessment of Pulp and Paper Production – A Portuguese Case Study. Computer Aided Chemical Engineering, 2020, 48, 15-20.	0.3	4
40	Towards sustainable development: Green supply chain design and planning using monetization methods. Business Strategy and the Environment, 2022, 31, 1369-1394.	8.5	4
41	Framework for assessing social sustainability in supply chains. Computer Aided Chemical Engineering, 2016, , 2019-2024.	0.3	3
42	Techno-economic analysis of resource recovery technologies for wastewater treatment plants. Computer Aided Chemical Engineering, 2017, 40, 1945-1950.	0.3	3
43	Assessment of sustainable wastewater treatment networks design applying LCA. Computer Aided Chemical Engineering, 2017, 40, 2707-2712.	0.3	3
44	Life cycle assessment of pulp and paper production – A Portuguese case study. Computer Aided Chemical Engineering, 2018, 43, 809-814.	0.3	3
45	Towards an Integrated Framework for Aerospace Supply Chain Sustainability. Springer Proceedings in Mathematics and Statistics, 2019, , 1-13.	0.1	3
46	A design and optimization framework for (bio-) chemical process based on exergo-economic and environmental aspects. Computer Aided Chemical Engineering, 2021, 50, 1897-1902.	0.3	3
47	Optimal Design of a Bioethanol Supply Chain Considering Different Environmental Impact Assessment Methods. Computer Aided Chemical Engineering, 2014, 33, 973-978.	0.3	2
48	Techno-Economic, Sustainability & Environmental Impact Diagnosis (TESED) Framework. Computer Aided Chemical Engineering, 2014, , 1021-1026.	0.3	2
49	Green supply chain design and planning. , 2015, , .		2
50	Sustainable supply chain design and planning: the importance of life cycle scope definition. Computer Aided Chemical Engineering, 2017, 40, 541-546.	0.3	2
51	Environmental and Comparative Assessment of Integrated Gasification Gas Cycle with CaO Looping and CO2 Adsorption by Activated Carbon: A Case Study of the Czech Republic. Energies, 2020, 13, 4188.	1.6	2
52	Sustainability Analysis of Chemical Processes Plants Using a Hybrid Heuristic and Indicator Model. Computer Aided Chemical Engineering, 2009, , 837-842.	0.3	1
53	Design of Sustainable Processes. , 2010, , 267-274.		1
54	A new methodology to identify supply chains sustainability bottlenecks. Computer Aided Chemical Engineering, 2013, , 541-546.	0.3	1

#	ARTICLE	IF	CITATIONS
55	NLP optimization for the design of sustainable wastewater treatment networks. Computer Aided Chemical Engineering, 2016, , 1503-1508.	0.3	1
56	The Influence of Corporate Social Responsibility on Economic Performance Within Supply Chain Planning. Lecture Notes in Economics and Mathematical Systems, 2016, , 151-156.	0.3	1
57	Sustainability Analysis of Industrial Processes. Lecture Notes in Logistics, 2017, , 171-190.	0.6	1
58	Green Supply Chain Design and Planning: The Importance of Decision Integration in Optimization Models. Springer Proceedings in Mathematics and Statistics, 2018, , 249-257.	0.1	1
59	Design and Planning Supply Chains with Beneficial Societal Goals. Computer Aided Chemical Engineering, 2019, 47, 439-444.	0.3	1
60	Sustainability in Chemical Processes. Computer Aided Chemical Engineering, 2011, 29, 1230-1234.	0.3	1
61	Framework to Batch Process Retrofit - A Continuous Improvement Approach. Computer Aided Chemical Engineering, 2014, 33, 1357-1362.	0.3	1
62	Decision Support Tool for Strategic Planning in Supply Chains. Computer Aided Chemical Engineering, 2014, 33, 895-900.	0.3	0
63	Strategic Sustainable Assessment of Retrofit Design for Process Performance Evaluation. , 2016, , 249-273.		0
64	Uncertainty & sensitivity analysis of economic assessment of lactic acid production from crude glycerol – impact of price correlations. Computer Aided Chemical Engineering, 2017, , 2911-2916.	0.3	0
65	Industrial Application of Sustainable Retrofit Design. Computer Aided Chemical Engineering, 2013, , 823-828.	0.3	0
66	A stochastic environmental model to deal with uncertainty in life cycle impact assessment. Computer Aided Chemical Engineering, 2019, 46, 1543-1548.	0.3	0
67	Design and Planning of Green Supply Chains with Risk Concerns. Springer Proceedings in Mathematics and Statistics, 2021, , 145-153.	0.1	0