

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	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
2	The wicked problem of sustainable development in supply chains. <i>Business Strategy and the Environment</i> , 2022, 31, 46-58.	8.5	14
3	Towards sustainable development: Green supply chain design and planning using monetization methods. <i>Business Strategy and the Environment</i> , 2022, 31, 1369-1394.	8.5	4
4	Social sustainability management in the apparel supply chains. <i>Journal of Cleaner Production</i> , 2021, 280, 124214.	4.6	54
5	A design and optimization framework for (bio-) chemical process based on exergo-economic and environmental aspects. <i>Computer Aided Chemical Engineering</i> , 2021, 50, 1897-1902.	0.3	3
6	A Lean Approach to Developing Sustainable Supply Chains. <i>Sustainability</i> , 2021, 13, 3714.	1.6	5
7	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
8	Design and Planning of Green Supply Chains with Risk Concerns. <i>Springer Proceedings in Mathematics and Statistics</i> , 2021, , 145-153.	0.1	0
9	The vehicle routing problem with backhauls towards a sustainability perspective: a review. <i>Top</i> , 2020, 28, 358-401.	1.1	15
10	Social Life Cycle Assessment of Pulp and Paper Production “ A Portuguese Case Study. <i>Computer Aided Chemical Engineering</i> , 2020, 48, 15-20.	0.3	4
11	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. <i>Energies</i> , 2020, 13, 4188.	1.6	2
12	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
13	Environmental monetization and risk assessment in supply chain design and planning. <i>Journal of Cleaner Production</i> , 2020, 270, 121552.	4.6	16
14	Incorporating social aspects in sustainable supply chains: Trends and future directions. <i>Journal of Cleaner Production</i> , 2019, 237, 117500.	4.6	70
15	Life cycle assessment in chemical industry “ a review. <i>Current Opinion in Chemical Engineering</i> , 2019, 26, 139-147.	3.8	25
16	Social life cycle assessment methodology for evaluating production process design: Biorefinery case study. <i>Journal of Cleaner Production</i> , 2019, 238, 117718.	4.6	31
17	Assessment and optimization of sustainable forest wood supply chains “ A systematic literature review. <i>Forest Policy and Economics</i> , 2019, 105, 112-135.	1.5	45
18	Towards an Integrated Framework for Aerospace Supply Chain Sustainability. <i>Springer Proceedings in Mathematics and Statistics</i> , 2019, , 1-13.	0.1	3

#	ARTICLE	IF	CITATIONS
19	Design and Planning Supply Chains with Beneficial Societal Goals. Computer Aided Chemical Engineering, 2019, 47, 439-444.	0.3	1
20	Green Supply Chain: Integrating Financial Risk Measures while Monetizing Environmental Impacts. Computer Aided Chemical Engineering, 2019, 46, 1549-1554.	0.3	5
21	A stochastic environmental model to deal with uncertainty in life cycle impact assessment. Computer Aided Chemical Engineering, 2019, 46, 1543-1548.	0.3	0
22	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
23	Quantitative indicators for social sustainability assessment of supply chains. Journal of Cleaner Production, 2018, 180, 748-768.	4.6	138
24	Sustainable supply chains: An integrated modeling approach under uncertainty. Omega, 2018, 77, 32-57.	3.6	123
25	Opportunities and challenges in sustainable supply chain: An operations research perspective. European Journal of Operational Research, 2018, 268, 399-431.	3.5	262
26	HOW TO DESIGN AND PLAN SUSTAINABLE SUPPLY CHAINS THROUGH OPTIMIZATION MODELS?. Pesquisa Operacional, 2018, 38, 363-388.	0.1	12
27	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
28	Sustainable Supply Chain: Monetization of Environmental Impacts. Computer Aided Chemical Engineering, 2018, 43, 773-778.	0.3	5
29	Life cycle assessment of pulp and paper production – A Portuguese case study. Computer Aided Chemical Engineering, 2018, 43, 809-814.	0.3	3
30	Sustainable batch process retrofit design under uncertainty – An integrated methodology. Computers and Chemical Engineering, 2017, 102, 226-237.	2.0	4
31	Supply Chain Optimization of Integrated Glycerol Biorefinery: <i>GlyThink</i> Model Development and Application. Industrial & Engineering Chemistry Research, 2017, 56, 6711-6727.	1.8	13
32	Optimal Design and Planning of Glycerol-Based Biorefinery Supply Chains under Uncertainty. Industrial & Engineering Chemistry Research, 2017, 56, 11870-11893.	1.8	18
33	Sustainability Analysis of Industrial Processes. Lecture Notes in Logistics, 2017, , 171-190.	0.6	1
34	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
35	Techno-economic analysis of resource recovery technologies for wastewater treatment plants. Computer Aided Chemical Engineering, 2017, 40, 1945-1950.	0.3	3
36	Assessment of sustainable wastewater treatment networks design applying LCA. Computer Aided Chemical Engineering, 2017, 40, 2707-2712.	0.3	3

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37	Sustainable supply chain design and planning: the importance of life cycle scope definition. <i>Computer Aided Chemical Engineering</i> , 2017, 40, 541-546.	0.3	2
38	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
39	NLP optimization for the design of sustainable wastewater treatment networks. <i>Computer Aided Chemical Engineering</i> , 2016, , 1503-1508.	0.3	1
40	Framework for assessing social sustainability in supply chains. <i>Computer Aided Chemical Engineering</i> , 2016, , 2019-2024.	0.3	3
41	Strategic Sustainable Assessment of Retrofit Design for Process Performance Evaluation. , 2016, , 249-273.		0
42	Assessing the environmental sustainability of early stage design for bioprocesses under uncertainties: An analysis of glycerol bioconversion. <i>Journal of Cleaner Production</i> , 2016, 139, 1245-1260.	4.6	35
43	Using Green Chemistry and Engineering Principles To Design, Assess, and Retrofit Chemical Processes for Sustainability. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 6208-6221.	3.2	27
44	The Wicked Character of Sustainable Supply Chain Management: Evidence from Sustainability Reports. <i>Business Strategy and the Environment</i> , 2016, 25, 449-477.	8.5	55
45	A framework for techno-economic & environmental sustainability analysis by risk assessment for conceptual process evaluation. <i>Biochemical Engineering Journal</i> , 2016, 116, 146-156.	1.8	34
46	The Influence of Corporate Social Responsibility on Economic Performance Within Supply Chain Planning. <i>Lecture Notes in Economics and Mathematical Systems</i> , 2016, , 151-156.	0.3	1
47	Supply chain design and planning accounting for the Triple Bottom Line. <i>Computer Aided Chemical Engineering</i> , 2015, 37, 1841-1846.	0.3	4
48	Green supply chain design and planning. , 2015, , .		2
49	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
50	Design and Planning of Sustainable Supply Chains. <i>Computer Aided Chemical Engineering</i> , 2015, 36, 333-353.	0.3	4
51	Towards supply chain sustainability: economic, environmental and social design and planning. <i>Journal of Cleaner Production</i> , 2015, 105, 14-27.	4.6	313
52	Optimal Design of a Bioethanol Supply Chain Considering Different Environmental Impact Assessment Methods. <i>Computer Aided Chemical Engineering</i> , 2014, 33, 973-978.	0.3	2
53	Techno-Economic, Sustainability & Environmental Impact Diagnosis (TESED) Framework. <i>Computer Aided Chemical Engineering</i> , 2014, , 1021-1026.	0.3	2
54	How to assess social aspects in supply chains?. <i>Computer Aided Chemical Engineering</i> , 2014, , 801-806.	0.3	7

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55	Decision Support Tool for Strategic Planning in Supply Chains. Computer Aided Chemical Engineering, 2014, 33, 895-900.	0.3	0
56	From a literature review to a framework for environmental process impact assessment index. Journal of Cleaner Production, 2014, 64, 36-62.	4.6	80
57	Framework to Batch Process Retrofit - A Continuous Improvement Approach. Computer Aided Chemical Engineering, 2014, 33, 1357-1362.	0.3	1
58	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
59	A new methodology to identify supply chains sustainability bottlenecks. Computer Aided Chemical Engineering, 2013, , 541-546.	0.3	1
60	Industrial Application of Sustainable Retrofit Design. Computer Aided Chemical Engineering, 2013, , 823-828.	0.3	0
61	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
62	Sustainability in Chemical Processes. Computer Aided Chemical Engineering, 2011, 29, 1230-1234.	0.3	1
63	Design of Sustainable Processes. , 2010, , 267-274.		1
64	Design of batch operations: Systematic methodology for generation and analysis of sustainable alternatives. Computers and Chemical Engineering, 2009, 33, 2075-2090.	2.0	29
65	Sustainability Analysis of Chemical Processes Plants Using a Hybrid Heuristic and Indicator Model. Computer Aided Chemical Engineering, 2009, , 837-842.	0.3	1
66	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
67	Design of sustainable processes: Systematic generation & evaluation of alternatives. Computer Aided Chemical Engineering, 2006, , 817-822.	0.3	7