Lidija ÄŒuÄek

List of Publications by Year
in descending order

68 papers	2,575 citations	304368 22 h-index	197535 49 g-index
71 all docs	71 docs citations	71 times ranked	2371 citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of Footprint analysis tools for monitoring impacts on sustainability. Journal of Cleaner Production, 2012, 34, 9-20.	4.6	682
2	Total footprints-based multi-criteria optimisation of regional biomass energy supply chains. Energy, 2012, 44, 135-145.	4.5	179
3	Synthesis of regional networks for the supply of energy and bioproducts. Clean Technologies and Environmental Policy, 2010, 12, 635-645.	2.1	132
4	Sustainable renewable energy supply networks optimization â€“ The gradual transition to a renewable energy system within the European Union by 2050. Renewable and Sustainable Energy Reviews, 2021, 146, 111186.	8.2	131
5	Multi-period synthesis of optimally integrated biomass and bioenergy supply network. Computers and Chemical Engineering, 2014, 66, 57-70.	2.0	117
6	Virtual carbon and water flows embodied in international trade: aÂreview on consumption-based analysis. Journal of Cleaner Production, 2017, 146, 20-28.	4.6	84
7	Green biomass to biogas â€“ A study on anaerobic digestion of residue grass. Journal of Cleaner Production, 2019, 213, 700-709.	4.6	84
8	Significance of environmental footprints for evaluating sustainability and security of development. Clean Technologies and Environmental Policy, 2015, 17, 2125-2141.	2.1	74
9	Multi-objective optimisation for generating sustainable solutions considering total effects on the environment. Applied Energy, 2013, 101, 67-80.	5.1	73
10	Energy, water and process technologies integration for the simultaneous production of ethanol and food from the entire corn plant. Computers and Chemical Engineering, 2011, 35, 1547-1557.	2.0	69
11	Carbon and nitrogen trade-offs in biomass energy production. Clean Technologies and Environmental Policy, 2012, 14, 389-397.	2.1	68
12	An ecological feasibility study for developing sustainable street lighting system. Journal of Cleaner Production, 2018, 175, 683-695.	4.6	51
13	Approaches for retrofitting heat exchanger networks within processes and Total Sites. Journal of Cleaner Production, 2019, 211, 884-894.	4.6	51
14	Opportunities and challenges: Experimental and kinetic analysis of anaerobic co-digestion of food waste and rendering industry streams for biogas production. Renewable and Sustainable Energy Reviews, 2020, 130, 109951.	8.2	47
15	Objective dimensionality reduction method within multi-objective optimisation considering total footprints. Journal of Cleaner Production, 2014, 71, 75-86.	4.6	42
16	Maximizing the sustainability net present value of renewable energy supply networks. Chemical Engineering Research and Design, 2018, 131, 245-265.	2.7	42
17	Overview of environmental footprints. , 2015, , 131-193.		41
18	Sustainability assessment of the Locally Integrated Energy Sectors for a Slovenian municipality. Journal of Cleaner Production, 2015, 88, 83-89.	4.6	39

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19	Syntheses of sustainable supply networks with a new composite criterion â€“ Sustainability profit. Computers and Chemical Engineering, 2017, 102, 139-155.	2.0	34
20	Sustainable synthesis of biogas processes using a novel concept of eco-profit. Computers and Chemical Engineering, 2012, 42, 87-100.	2.0	28
21	Synthesis of sustainable production systems using an upgraded concept of sustainability profit and circularity. Journal of Cleaner Production, 2018, 201, 1138-1154.	4.6	28
22	Beyond energy crops and subsidised electricity â€“ A study on sustainable biogas production and utilisation in advanced energy markets. Energy, 2020, 201, 117651.	4.5	25
23	Simultaneous optimisation and heat integration of evaporation systems including mechanical vapour recompression and background process. Energy, 2018, 158, 1160-1191.	4.5	24
24	Synthesis of biogas supply networks using various biomass and manure types. Computers and Chemical Engineering, 2019, 122, 129-151.	2.0	23
25	Locally Integrated Energy Sectors supported by renewable network management within municipalities. Applied Thermal Engineering, 2015, 89, 1014-1022.	3.0	22
26	Utilisation of waste heat from exhaust gases of drying process. Frontiers of Chemical Science and Engineering, 2016, 10, 131-138.	2.3	22
27	Synergy between feedstock gate fee and power-to-gas: An energy and economic analysis of renewable methane production in a biogas plant. Renewable Energy, 2021, 173, 12-23.	4.3	22
28	A kinetic study of roadside grass pyrolysis and digestate from anaerobic mono-digestion. Bioresource Technology, 2019, 292, 121935.	4.8	21
29	Conceptual design of a municipal energy and environmental system asÂan efficient basis for advanced energy planning. Energy, 2013, 60, 148-158.	4.5	20
30	Dealing with High-Dimensionality of Criteria in Multiobjective Optimization of Biomass Energy Supply Network. Industrial & Engineering Chemistry Research, 2013, 52, 7223-7239.	1.8	19
31	Nutrient recovery from the digestate obtained by rumen fluid enhanced anaerobic co-digestion of sewage sludge and cattail: Precipitation by MgCl2 and ion exchange using zeolite. Journal of Environmental Management, 2021, 290, 112593.	3.8	18
32	Pyrolysis of Solid Digestate from Sewage Sludge and Lignocellulosic Biomass: Kinetic and Thermodynamic Analysis, Characterization of Biochar. Sustainability, 2021, 13, 9642.	1.6	17
33	Conceptual MINLP approach to the development of a CO2 supply chain network â€“ Simultaneous consideration of capture and utilization process flowsheets. Journal of Cleaner Production, 2021, 314, 128008.	4.6	17
34	The advantages of co-digestion of vegetable oil industry by-products and sewage sludge: Biogas production potential, kinetic analysis and digestate valorisation. Journal of Environmental Management, 2022, 318, 115566.	3.8	17
35	Multi-objective synthesis of a company's supply network by accounting for several environmental footprints. Chemical Engineering Research and Design, 2014, 92, 456-466.	2.7	15
36	Optimization of bioethanol and sugar supply chain network: a South African case study. Clean Technologies and Environmental Policy, 2018, 20, 925-948.	2.1	15

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37	Integrated design for direct and indirect solar thermal utilization in low temperature industrial operations. Energy, 2019, 182, 381-396.	4.5	15
38	Optimization of biogas supply networks considering multiple objectives and auction trading prices of electricity. BMC Chemical Engineering, 2020, 2, .	3.4	14
39	Synthesis of environmentally-benign energy self-sufficient processes under uncertainty. Journal of Cleaner Production, 2015, 88, 90-104.	4.6	12
40	Carbon Emissions Constrained Energy Planning for Aluminum Products. Energies, 2020, 13, 2753.	1.6	11
41	Maximizing the power output and net present value of organic Rankine cycle: Application to aluminium industry. Energy, 2022, 239, 122620.	4.5	11
42	Large-Scale Biorefinery Supply Network â€“ Case Study of the European Union. Computer Aided Chemical Engineering, 2014, 33, 319-324.	0.3	10
43	Synthesis of European Union Biorefinery Supply Networks Considering Sustainability Objectives. Processes, 2020, 8, 1588.	1.3	10
44	Energy, Water and Process Technologies Integration for the Simultaneous Production of Ethanol and Food from the entire Corn Plant. Computer Aided Chemical Engineering, 2011, , 2004-2008.	0.3	9
45	Synthesis of flexible supply networks under uncertainty applied to biogas production. Computers and Chemical Engineering, 2019, 129, 106503.	2.0	9
46	Determination of Various Parameters during Thermal and Biological Pretreatment of Waste Materials. Energies, 2020, 13, 2262.	1.6	8
47	Multi-period Synthesis of a Biorefinery's Supply Networks. Computer Aided Chemical Engineering, 2013, 32, 73-78.	0.3	8
48	Nitrogen- and Climate Impact-based Metrics in Biomass Supply Chains. Computer Aided Chemical Engineering, 2014, , 483-488.	0.3	7
49	Sustainable LCA-based MIP Synthesis of Biogas Processes. Computer Aided Chemical Engineering, 2011, 29, 1999-2003.	0.3	6
50	Footprints Evaluation of Chinaâ€™s Coal Supply Chains. Computer Aided Chemical Engineering, 2014, 33, 1879-1884.	0.3	6
51	Recent Developments in Advanced Process Integration: Learning the Lessons from Industrial Implementations. Applied Mechanics and Materials, 0, 625, 454-457.	0.2	6
52	Synthesis of Supply Networks over Multiple Time Frames: A Case Study of Electricity Production from Biogas. Computer Aided Chemical Engineering, 2017, , 1447-1452.	0.3	6
53	Geospatial Analysis and Environmental Impact Assessment of a Holistic and Interdisciplinary Approach to the Biogas Sector. Energies, 2021, 14, 5374.	1.6	6
54	Correlations among Footprints within Biomass Energy Supply-Chains. Computer Aided Chemical Engineering, 2012, 31, 1397-1401.	0.3	5

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55	Synthesis of Heat Pump Enhanced Solar Thermal for Low and Medium Temperature Operations. Computer Aided Chemical Engineering, 2020, 48, 979-984.	0.3	4
56	Accessing Direct and Indirect Effects within a LCA Based Multiobjective Synthesis of Bioproducts Supply Chains. Computer Aided Chemical Engineering, 2012, , 1065-1069.	0.3	3
57	Reduction of Cost, Energy and Emissions of the Formalin Production Process via Methane Steam Reforming. Systems, 2021, 9, 5.	1.2	3
58	Macro- and Micro-economic Perspectives regarding the Syntheses of Sustainable Bio-Fuels Supply Networks. Computer Aided Chemical Engineering, 2016, , 2253-2258.	0.3	3
59	Reducing the environmental impacts of the production of melamine etherified resin fibre. Sustainable Production and Consumption, 2022, 29, 479-494.	5.7	3
60	SUSTAINABLE SYNTHESIS AND OPTIMIZATION OF ENGINEERING SYSTEMS. WIT Transactions on the Built Environment, 2018, , .	0.0	2
61	Synthesis of Solar Heat Network for Preheating of Industrial Process Streams. Computer Aided Chemical Engineering, 2019, 46, 535-540.	0.3	1
62	Process Integration of Heat Utilised from Exhaust Gases. Computer Aided Chemical Engineering, 2016, 38, 2265-2270.	0.3	0
63	Systematic tool for sustainable synthesis and design of flexible processes and supply chains under uncertainty. Computer Aided Chemical Engineering, 2018, 43, 863-868.	0.3	0
64	Synthesis of the EU Supply Networks for the Gradual Transition to 100 % Renewable Energy Production. Computer Aided Chemical Engineering, 2021, , 1573-1579.	0.3	0
65	Transportation Model for Carbon-Constrained Electricity Planning: An Application to the Aluminium Industry. , 0, , .		0
66	An Investigation of Waste Material Parameters during Pretreatment. , 0, , .		0
67	Anaerobic Co-digestion of Sewage Sludge and Typha Latifolia and the Impact of Cattle Rumen Fluid on Biogas Production. , 0, , .		0
68	Techno-Economic Optimization of a Low-Temperature Organic Rankine System Driven by Multiple Heat Sources. Frontiers in Sustainability, 0, 3, .	1.3	0