

# Jiri Jaromir Klemes

## List of Publications by Year in descending order

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Version: 2024-02-01

483  
papers

20,556  
citations

9786

73  
h-index

22166

113  
g-index

523  
all docs

523  
docs citations

523  
times ranked

13996  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms and strategies for ash deposition reduction in flue gas heat exchanger. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 77-93.	4.1	11
2	Total Site Hydrogen Integration with fresh hydrogen of multiple quality and waste hydrogen recovery in refineries. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 12159-12178.	7.1	12
3	Treatment of Hospital wastewater with submerged aerobic fixed film reactor coupled with tube-settler. <i>Chemosphere</i> , 2022, 286, 131838.	8.2	15
4	Forecasting plastic waste generation and interventions for environmental hazard mitigation. <i>Journal of Hazardous Materials</i> , 2022, 424, 127330.	12.4	55
5	Roadmap to carbon emissions neutral industrial parks: Energy, economic and environmental analysis. <i>Energy</i> , 2022, 238, 121732.	8.8	66
6	Extension of pinch analysis to targeting and synthesis of water recycling networks with multiple contaminants. <i>Chemical Engineering Science</i> , 2022, 248, 117223.	3.8	15
7	Phyllosilicate derived catalysts for efficient conversion of lignocellulosic derived biomass to biodiesel: A review. <i>Bioresource Technology</i> , 2022, 343, 126068.	9.6	45
8	Energy and environmental sustainability of waste personal protective equipment (PPE) treatment under COVID-19. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 153, 111786.	16.4	21
9	Conversion of the toxic and hazardous <i>Zanthoxylum armatum</i> seed oil into methyl ester using green and recyclable silver oxide nanoparticles. <i>Fuel</i> , 2022, 310, 122296.	6.4	25
10	Salt hydrate-based gas-solid thermochemical energy storage: Current progress, challenges, and perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 154, 111846.	16.4	49
11	Circular economy meets the drawdown economy: Enhanced weathering of industrial solid waste as a win-win solution. <i>Resources, Conservation and Recycling</i> , 2022, 178, 106029.	10.8	7
12	Agent-based model for simulation of the sustainability revolution in eco-industrial parks. <i>Environmental Science and Pollution Research</i> , 2022, 29, 23117-23128.	5.3	6
13	Biodiesel synthesis from <i>Prunus bokhariensis</i> non-edible seed oil by using green silver oxide nanocatalyst. <i>Chemosphere</i> , 2022, 291, 132780.	8.2	16
14	Reducing resource use and emissions by integrating technology and policy solutions. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 1-2.	4.1	0
15	Nano- from nature to nurture: A comprehensive review on facets, trends, perspectives and sustainability of nanotechnology in the food sector. <i>Energy</i> , 2022, 240, 122732.	8.8	55
16	Post COVID-19 ENERGY sustainability and carbon emissions neutrality. <i>Energy</i> , 2022, 241, 122801.	8.8	57
17	A life cycle assessment of an enterprise's low-carbon emissions model: The Xinjiang Shihezi pig farm faecal treatment biogas project as a case study. <i>Journal of Environmental Management</i> , 2022, 304, 114251.	7.8	9
18	A review of self-cleaning technology to reduce dust and ice accumulation in photovoltaic power generation using superhydrophobic coating. <i>Renewable Energy</i> , 2022, 185, 1034-1061.	8.9	40

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19	Photocatalytic degradation of xanthate in flotation plant tailings by TiO <sub>2</sub> /graphene nanocomposites. Chemical Engineering Journal, 2022, 431, 134104.	12.7	124
20	Integrated linear programming and analytical hierarchy process method for diesel/biodiesel/butanol in reducing diesel emissions. Journal of Cleaner Production, 2022, 337, 130297.	9.3	9
21	Municipal power plan optimisation accounting for environmental footprints. Energy Conversion and Management, 2022, 254, 115296.	9.2	9
22	Effective use of recycled waste PET in cementitious grouts for developing sustainable semi-flexible pavement surfacing using artificial neural network (ANN). Journal of Cleaner Production, 2022, 340, 130840.	9.3	48
23	Supplier evaluation and management considering greener production in manufacturing industry. Journal of Cleaner Production, 2022, 342, 130964.	9.3	14
24	Efficient thermal management strategy of Li-ion battery pack based on sorption heat storage. Energy Conversion and Management, 2022, 256, 115383.	9.2	12
25	Modeling Residential Electricity Consumption from Public Demographic Data for Sustainable Cities. Energies, 2022, 15, 2163.	3.1	11
26	Greener production of cellulose nanocrystals: An optimised design and life cycle assessment. Journal of Cleaner Production, 2022, 345, 131073.	9.3	26
27	Cleaner technologies for sustainable development. Cleaner Engineering and Technology, 2022, 7, 100445.	4.0	12
28	Changes in water use and wastewater generation influenced by the COVID-19 pandemic: A case study of China. Journal of Environmental Management, 2022, 314, 115024.	7.8	11
29	Valorisation of nuts biowaste: Prospects in sustainable bio(nano)catalysts and environmental applications. Journal of Cleaner Production, 2022, 347, 131220.	9.3	71
30	Review of recent progress of emission trading policy in China. Journal of Cleaner Production, 2022, 349, 131480.	9.3	81
31	Blockchain technology for agricultural supply chains during the COVID-19 pandemic: Benefits and cleaner solutions. Journal of Cleaner Production, 2022, 347, 131268.	9.3	45
32	Household waste management in Singapore and Shanghai: Experiences, challenges and opportunities from the perspective of emerging megacities. Waste Management, 2022, 144, 221-232.	7.4	20
33	Integrated software suite for heat recovery networks and equipment design. Computers and Chemical Engineering, 2022, 161, 107742.	3.8	0
34	A graphical approach for mixed ratio optimisation in the binary mixed amine solution. Journal of Environmental Management, 2022, 311, 114779.	7.8	4
35	Industrial site water exchange network synthesis considering multiple quality constraints and water headers. Journal of Environmental Management, 2022, 312, 114890.	7.8	2
36	Numerical study on 2-stage phase change heat sink for cooling of photovoltaic panel. Energy, 2022, 249, 123679.	8.8	4

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37	Exergy Footprint Assessment of Cotton Textile Recycling to Polyethylene. <i>Energies</i> , 2022, 15, 205.	3.1	2
38	Deeppipe: Theory-guided neural network method for predicting burst pressure of corroded pipelines. <i>Chemical Engineering Research and Design</i> , 2022, 162, 595-609.	5.6	20
39	Industrial water network vulnerability analysis using dynamic inoperability input-output model. <i>Journal of Environmental Management</i> , 2022, 314, 115015.	7.8	8
40	Geospatial distribution and health risk assessment of groundwater contaminated within the industrial areas: an environmental sustainability perspective. <i>Chemosphere</i> , 2022, 303, 134749.	8.2	8
41	Corporate governance code and voluntary disclosure of integrated reporting: Evidence from an emerging economy. <i>Sustainable Development</i> , 2022, 30, 1497-1510.	12.5	9
42	Perspective review on Municipal Solid Waste-to-energy route: Characteristics, management strategy, and role in circular economy. <i>Journal of Cleaner Production</i> , 2022, 359, 131897.	9.3	103
43	Design of Total Site-Integrated TrigenerationSystem using trigeneration cascade analysis considering transmission losses and sensitivity analysis. <i>Energy</i> , 2022, 252, 123958.	8.8	6
44	Plastic Circular Economy Framework using Hybrid Machine Learning and Pinch Analysis. <i>Resources, Conservation and Recycling</i> , 2022, 184, 106387.	10.8	17
45	To what extent do waste management strategies need adaptation to post-COVID-19?. <i>Science of the Total Environment</i> , 2022, 837, 155829.	8.0	32
46	Integrated Waste Management System to Reduce Environmental Footprints. , 2022, , .		0
47	The intertwining issues of energy security, environmental protection, and societal development. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 1319-1320.	4.1	2
48	Experimental study on photovoltaic/thermal system performance based on microencapsulated phase change material slurry. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022, 44, 4494-4509.	2.3	4
49	Energy-saving design and control strategy towards modern sustainable greenhouse: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 164, 112602.	16.4	37
50	A review of intensification technologies for biodiesel production. , 2022, , 87-116.		18
51	Maximising the valorisation of organic waste locally available via carbon-to-nitrogen ratio Supply Composite Curve shifting. <i>Journal of Cleaner Production</i> , 2022, , 132389.	9.3	0
52	Renewable energy systems for building heating, cooling and electricity production with thermal energy storage. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 165, 112560.	16.4	70
53	Graphical approaches for cleaner production and sustainability in process systems. <i>Journal of Cleaner Production</i> , 2022, 366, 132790.	9.3	4
54	Insights into MXenes-based electrocatalysts for oxygen reduction. <i>Energy</i> , 2022, 255, 124465.	8.8	15

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55	Co-pyrolysis of lychee and plastic waste as a source of bioenergy through kinetic study and thermodynamic analysis. <i>Energy</i> , 2022, 256, 124678.	8.8	22
56	Future outlook on 6G technology for renewable energy sources (RES). <i>Renewable and Sustainable Energy Reviews</i> , 2022, 167, 112722.	16.4	24
57	Investigation on the thermal performance of flat-plate heat pipes with various working fluids under different inclination angles. <i>Energy Reports</i> , 2022, 8, 8017-8026.	5.1	14
58	Bioenergy carbon emissions footprint considering the biogenic carbon and secondary effects. <i>International Journal of Energy Research</i> , 2021, 45, 283-296.	4.5	21
59	Sustainable business model: A review and framework development. <i>Clean Technologies and Environmental Policy</i> , 2021, 23, 889-897.	4.1	59
60	Energy Storage of Low Potential Heat using Lithium Hydroxide Based Sorbent for Domestic Heat Supply. <i>Journal of Cleaner Production</i> , 2021, 285, 124907.	9.3	28
61	New hybrid meta-heuristic algorithm for reliable and cost-effective designing of photovoltaic/wind/fuel cell energy system considering load interruption probability. <i>Journal of Cleaner Production</i> , 2021, 278, 123406.	9.3	89
62	Plastics: friends or foes? The circularity and plastic waste footprint. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2021, 43, 1549-1565.	2.3	90
63	Pinch-based targeting methodology for multi-contaminant material recycle/reuse. <i>Chemical Engineering Science</i> , 2021, 230, 116129.	3.8	27
64	Spatial-temporal potential exposure risk analytics and urban sustainability impacts related to COVID-19 mitigation: A perspective from car mobility behaviour. <i>Journal of Cleaner Production</i> , 2021, 279, 123673.	9.3	85
65	An update of COVID-19 influence on waste management. <i>Science of the Total Environment</i> , 2021, 754, 142014.	8.0	153
66	<scp>COVID</scp> â€19 pandemic facilitating energy transition opportunities. <i>International Journal of Energy Research</i> , 2021, 45, 3457-3463.	4.5	62
67	Comparative evaluation of hybrid photovoltaic, wind, tidal and fuel cell clean system design for different regions with remote application considering cost. <i>Journal of Cleaner Production</i> , 2021, 283, 124207.	9.3	68
68	Comparison of aerodynamic noise and heat transfer for shell-and-tube heat exchangers with continuous helical and segmental baffles. <i>Applied Thermal Engineering</i> , 2021, 185, 116341.	6.0	12
69	Unsustainable imbalances and inequities in Carbon-Water-Energy flows across the EU27. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 138, 110550.	16.4	11
70	Heat integration incorporating leakage risk assessment of heat exchanger networks. <i>Computers and Chemical Engineering</i> , 2021, 145, 107173.	3.8	11
71	Integrated regional waste management to minimise the environmental footprints in circular economy transition. <i>Resources, Conservation and Recycling</i> , 2021, 168, 105292.	10.8	44
72	Cost-Based Quantitative-Qualitative Water Footprint Considering Multiple Contaminants. <i>Resources, Conservation and Recycling</i> , 2021, 168, 105339.	10.8	6

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73	Modelling the higher heating value of municipal solid waste for assessment of waste-to-energy potential: A sustainable case study. Journal of Cleaner Production, 2021, 287, 125575.	9.3	57
74	Covid-19 shock: Development of strategic management framework for global energy. Renewable and Sustainable Energy Reviews, 2021, 139, 110643.	16.4	41
75	Urban and industrial symbiosis for circular economy: Total EcoSite Integration. Journal of Environmental Management, 2021, 279, 111829.	7.8	43
76	Process assessment, integration and optimisation: The path towards cleaner production. Journal of Cleaner Production, 2021, 281, 124602.	9.3	15
77	Heat exchanger network retrofit with heat exchanger and material type selection: A review and a novel method. Renewable and Sustainable Energy Reviews, 2021, 138, 110479.	16.4	40
78	Targeting and Optimisation of Industrial and Urban Symbiosis for Circular Economy. Computer Aided Chemical Engineering, 2021, 50, 1659-1664.	0.5	1
79	Markov Decision Process to Optimise Long-term Asset Maintenance and Technologies Investment in Chemical Industry. Computer Aided Chemical Engineering, 2021, 50, 1853-1858.	0.5	1
80	A fair profit allocation model for the distribution plan optimisation of refined products supply chains. Computer Aided Chemical Engineering, 2021, 50, 1847-1852.	0.5	4
81	Data analytics of social media publicity to enhance household waste management. Resources, Conservation and Recycling, 2021, 164, 105146.	10.8	45
82	Numerical study on heat transfer and flow characteristics of nanofluids in a circular tube with trapezoid ribs. Open Physics, 2021, 19, 224-233.	1.7	5
83	Effect of buried depth on thermal performance of a vertical U-tube underground heat exchanger. Open Physics, 2021, 19, 327-330.	1.7	7
84	Profiling Malaysian ship registration and seafarers for streamlining future Malaysian shipping governance. Australian Journal of Maritime and Ocean Affairs, 2021, 13, 225-261.	2.0	33
85	A Review of the Progress of COVID-19 Vaccine Development. Duzce Universitesi Tip Fakültesi Dergisi, 2021, 23, 1-23.	0.7	7
86	Impacts of COVID-19 on energy demand and consumption: Challenges, lessons and emerging opportunities. Applied Energy, 2021, 285, 116441.	10.1	339
87	Energy transition and the role of system integration of the energy, water and environmental systems. Journal of Cleaner Production, 2021, 292, 126027.	9.3	42
88	Trade-offs between the recovery, exergy demand and economy in the recycling of multiple resources. Resources, Conservation and Recycling, 2021, 167, 105428.	10.8	22
89	Design and Energy Analysis of a Solar Desiccant Evaporative Cooling System with Built-In Daily Energy Storage. Energies, 2021, 14, 2429.	3.1	7
90	Impacts of urban land morphology on PM2.5 concentration in the urban agglomerations of China. Journal of Environmental Management, 2021, 283, 112000.	7.8	48

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91	Enhanced Cascade Table Analysis to target and design multi-constraint resource conservation networks. Computers and Chemical Engineering, 2021, 148, 107262.	3.8	6
92	Internal and Total Site Water Network Design with Water Mains Using Pinch-Based and Optimization Approaches. ACS Sustainable Chemistry and Engineering, 2021, 9, 6639-6658.	6.7	8
93	Exploring relationship between environmentalism and consumerism in a market economy society: A structured systematic literature review. Cleaner Engineering and Technology, 2021, 2, 100047.	4.0	14
94	State and prospects of processing tin-containing raw materials in Kazakhstan. Kompleksnoe Ispol'zovanie Mineral'nogo Syr'ya/Complex Use of Mineral Resources/Mineraldik Shikisattardy Keshendi Paidalanu, 2021, 317, 37-45.	0.2	0
95	Heat Exchanger Network synthesis considering prohibited and restricted matches. Energy, 2021, 225, 120214.	8.8	9
96	Thermo-kinetic study to elucidate the bioenergy potential of Maple Leaf Waste (MLW) by pyrolysis, TGA and kinetic modelling. Fuel, 2021, 293, 120349.	6.4	38
97	A novel turbine ventilator with a damper regulator to adjust exhausted air for energy-saving in buildings. Journal of Building Engineering, 2021, 38, 102141.	3.4	3
98	A Heat and Power Pinch for Process Integration targeting in hybrid energy systems. Journal of Environmental Management, 2021, 287, 112305.	7.8	15
99	Oil refinery and water pollution in the context of sustainable development: Developing and developed countries. Journal of Cleaner Production, 2021, 302, 126987.	9.3	36
100	A target-evaluation method for heat exchanger network optimisation with heat transfer enhancement. Energy Conversion and Management, 2021, 238, 114154.	9.2	23
101	Regional embodied Water-Energy-Carbon efficiency of China. Energy, 2021, 224, 120159.	8.8	17
102	Sustainable design, integration, and operation for energy high-performance process systems. Energy, 2021, 224, 120158.	8.8	45
103	Total Site Heat Integration benefiting from geothermal energy for heating and cooling implementations. Journal of Environmental Management, 2021, 290, 112596.	7.8	17
104	Entwining ecosystem services, Land Use Change and human well-being by nitrogen flows. Journal of Cleaner Production, 2021, 308, 127442.	9.3	15
105	Shifting from fossil-based economy to bio-based economy: Status quo, challenges, and prospects. Energy, 2021, 228, 120533.	8.8	66
106	Time series forecasting of new cases and new deaths rate for COVID-19 using deep learning methods. Results in Physics, 2021, 27, 104495.	4.1	92
107	Measuring sustainable cleaner maintenance hierarchical contributions of the car manufacturing industry. Journal of Cleaner Production, 2021, 312, 127717.	9.3	13
108	Virtual water and CO2 emission footprints embodied in power trade: EU-27. Energy Policy, 2021, 155, 112348.	8.8	15



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109	Effects of salt and solidification treatment on the oil-contaminated soil: A case study in the coastal region of Tianjin, China. <i>Journal of Cleaner Production</i> , 2021, 312, 127619.	9.3	4
110	Cyanobacterial risk prevention under global warming using an extended Bayesian network. <i>Journal of Cleaner Production</i> , 2021, 312, 127729.	9.3	11
111	Pressure drop in two phase flow of condensing air-steam mixture inside PHE channels formed by plates with corrugations of different geometries. <i>Energy</i> , 2021, 228, 120583.	8.8	10
112	Total Site Material Recycling Network Design and Headers Targeting Framework with Minimal Cross-Plant Source Transfer. <i>Computers and Chemical Engineering</i> , 2021, 151, 107364.	3.8	7
113	A hybrid risk analysis model for wind farms using Coloured Petri Nets and interpretive structural modelling. <i>Energy</i> , 2021, 229, 120696.	8.8	13
114	Synthesis of biodiesel from non-edible ( <i>Brachychiton populneus</i> ) oil in the presence of nickel oxide nanocatalyst: Parametric and optimisation studies. <i>Chemosphere</i> , 2021, 278, 130469.	8.2	71
115	A sustainable syngas cryogenic separation process combined with ammonia absorption refrigeration pre-cooling cycle. <i>Journal of Cleaner Production</i> , 2021, 313, 127612.	9.3	3
116	A review on plant-microbial interactions, functions, mechanisms and emerging trends in bioretention system to improve multi-contaminated stormwater treatment. <i>Journal of Environmental Management</i> , 2021, 294, 113108.	7.8	46
117	Reducing diesel exhaust emissions by optimisation of alcohol oxygenates blend with diesel/biodiesel. <i>Journal of Cleaner Production</i> , 2021, 316, 128090.	9.3	23
118	Characterisation and sorption behaviour of LiOH-LiCl@EG composite sorbents for thermochemical energy storage with controllable thermal upgradeability. <i>Chemical Engineering Journal</i> , 2021, 421, 129586.	12.7	31
119	Perovskite and related oxide based electrodes for water splitting. <i>Journal of Cleaner Production</i> , 2021, 318, 128544.	9.3	70
120	Numerical analysis on the improved thermo-chemical behaviour of hierarchical energy materials as a cascaded thermal accumulator. <i>Energy</i> , 2021, 232, 120937.	8.8	14
121	Utilization of microalgae for bio-jet fuel production in the aviation sector: Challenges and perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111396.	16.4	58
122	Sustainability assessment of biomethanol production via hydrothermal gasification supported by artificial neural network. <i>Journal of Cleaner Production</i> , 2021, 318, 128606.	9.3	30
123	A state-of-the-art review of greenhouse gas emissions from Indian hydropower reservoirs. <i>Journal of Cleaner Production</i> , 2021, 320, 128806.	9.3	47
124	Data analysis of resident engagement and sentiments in social media enables better household waste segregation and recycling. <i>Journal of Cleaner Production</i> , 2021, 319, 128809.	9.3	16
125	Extended water-energy nexus contribution to environmentally-related sustainable development goals. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 150, 111485.	16.4	75
126	Plate heat exchanger design for the utilisation of waste heat from exhaust gases of drying process. <i>Energy</i> , 2021, 233, 121186.	8.8	12



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127	Dilution rate of compost leachate from different biowaste for the fertigation of vegetables. Journal of Environmental Management, 2021, 295, 113010.	7.8	4
128	COVID-19 pandemics Stage II “ Energy and environmental impacts of vaccination. Renewable and Sustainable Energy Reviews, 2021, 150, 111400.	16.4	65
129	A pinch-based multi-energy targeting framework for combined chilling heating power microgrid of urban-industrial symbiosis. Renewable and Sustainable Energy Reviews, 2021, 150, 111482.	16.4	17
130	Review of higher heating value of municipal solid waste based on analysis and smart modelling. Renewable and Sustainable Energy Reviews, 2021, 151, 111591.	16.4	19
131	Advances in nanocellulose-based materials as adsorbents of heavy metals and dyes. Carbohydrate Polymers, 2021, 272, 118471.	10.2	76
132	Energy, environmental, economic and social equity (4E) pressures of COVID-19 vaccination mismanagement: A global perspective. Energy, 2021, 235, 121315.	8.8	26
133	Biomass integration for energy recovery and efficient use of resources: Tomsk Region. Energy, 2021, 235, 121378.	8.8	12
134	Design of integrated energy-water systems using Pinch Analysis: A nexus study of energy-water-carbon emissions. Journal of Cleaner Production, 2021, 322, 129092.	9.3	11
135	Subsidised water symbiosis of eco-industrial parks: A multi-stage game theory approach. Computers and Chemical Engineering, 2021, 155, 107539.	3.8	24
136	Supercritical CO2 Brayton cycle at different heat source temperatures and its analysis under leakage and disturbance conditions. Energy, 2021, 237, 121610.	8.8	13
137	More Is Not Enough: A Deeper Understanding of the COVID-19 Impacts on Healthcare, Energy and Environment Is Crucial. International Journal of Environmental Research and Public Health, 2021, 18, 684.	2.6	27
138	Optimal Sizing of a Trigeneration Plant Integrated with Total Site System Considering Multi-period and Energy Losses. E3S Web of Conferences, 2021, 287, 03014.	0.5	1
139	Smart Green Agriculture on Industrially Polluted Agricultural Landscapes. , 2021, , .		1
140	The indicators of agricultural crops based on the remote sensing of the Earth (ERS). , 2021, , .		0
141	The Inclusion of Intellectual Capital into the Green Board Committee to Enhance Firm Performance. Sustainability, 2021, 13, 10849.	3.2	18
142	Roles of E-waste in a Circular Economy: EU-27. , 2021, , .		1
143	Sustainable development in period of COVID-19 pandemic. Journal of Cleaner Production, 2021, 328, 129577.	9.3	14
144	Unprecedented Impacts of Aviation Emissions on Global Environmental and Climate Change Scenario. Current Pollution Reports, 2021, 7, 549-564.	6.6	20

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145	Overview of the Methodology Developments in Water-Energy Nexus Studies. , 2021, , .		1
146	Minimisation of the Energy Resource Demands and Environmental Footprints for Industrial and Urban Symbiosis using the Circularity Concept. , 2021, , .		0
147	Plastic Waste Categorisation using Machine Learning Methods-Metals Contaminations. , 2021, , .		2
148	Planning of a flexible refined products transportation network in response to emergencies. Journal of Pipeline Science and Engineering, 2021, 1, 468-475.	4.8	6
149	Trend towards virtual and hybrid conferences may be an effective climate change mitigation strategy. Nature Communications, 2021, 12, 7324.	12.8	57
150	Development of guidelines for the implementation of sustainable enterprise resource planning systems. Journal of Cleaner Production, 2020, 244, 118655.	9.3	55
151	Optimisation and process design tools for cleaner production. Journal of Cleaner Production, 2020, 247, 119181.	9.3	42
152	Data-driven analytical framework for waste-dumping behaviour analysis to facilitate policy regulations. Waste Management, 2020, 103, 285-295.	7.4	52
153	Water-Energy-Carbon Emissions nexus analysis of China: An environmental input-output model-based approach. Applied Energy, 2020, 261, 114431.	10.1	116
154	Heat transfer enhancement, intensification and optimisation in heat exchanger network retrofit and operation. Renewable and Sustainable Energy Reviews, 2020, 120, 109644.	16.4	78
155	Sustainability through combined development of energy, water and environment systems. Journal of Cleaner Production, 2020, 251, 119727.	9.3	43
156	Feasibility Study of Composting and Anaerobic Digestion Plant at Community Scale in Malaysia. Waste and Biomass Valorization, 2020, 11, 5165-5173.	3.4	7
157	Implementing Circular Economy in municipal solid waste treatment system using P-graph. Science of the Total Environment, 2020, 701, 134652.	8.0	66
158	Critical Success Factors of the Reliability-Centred Maintenance Implementation in the Oil and Gas Industry. Symmetry, 2020, 12, 1585.	2.2	8
159	The energy and environmental footprints of COVID-19 fighting measures “PPE, disinfection, supply chains. Energy, 2020, 211, 118701.	8.8	194
160	A review on CO2 capture via nitrogen-doped porous polymers and catalytic conversion as a feedstock for fuels. Journal of Cleaner Production, 2020, 277, 123999.	9.3	45
161	Long-term investment and maintenance planning for heat exchanger network retrofit. Applied Energy, 2020, 279, 115713.	10.1	21
162	Design of optimal heat exchanger network with fluctuation probability using break-even analysis. Energy, 2020, 212, 118583.	8.8	11

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163	Bioenergy with carbon emissions capture and utilisation towards GHG neutrality: Power-to-Gas storage via hydrothermal gasification. Applied Energy, 2020, 280, 115923.	10.1	27
164	Emission-cost nexus optimisation and performance analysis of downstream oil supply chains. Journal of Cleaner Production, 2020, 266, 121831.	9.3	25
165	Dry cooling as a way toward minimisation of water consumption in the steel industry: A case study for continuous steel casting. Journal of Cleaner Production, 2020, 275, 123109.	9.3	9
166	Measuring the environmental performance of the EU27 from the Water-Energy-Carbon nexus perspective. Journal of Cleaner Production, 2020, 265, 121832.	9.3	23
167	Simulation and Improvement of Patientsâ€™ Workflow in Heart Clinics during COVID-19 Pandemic Using Timed Coloured Petri Nets. International Journal of Environmental Research and Public Health, 2020, 17, 8577.	2.6	21
168	Torrefied biomass fuels as a renewable alternative to coal in co-firing for power generation. Energy, 2020, 209, 118444.	8.8	86
169	Lead and cadmium removal from wastewater using eco-friendly biochar adsorbent derived from rice husk, wheat straw, and corncob. Cleaner Engineering and Technology, 2020, 1, 100006.	4.0	50
170	Asset maintenance optimisation approaches in the chemical and process industries â€“ A review. Chemical Engineering Research and Design, 2020, 164, 162-194.	5.6	21
171	Environmental-social-economic footprints of consumption and trade in the Asia-Pacific region. Nature Communications, 2020, 11, 4490.	12.8	76
172	Emerging Tools for Energy System Design Increasing Economic and Environmental Sustainability. Energies, 2020, 13, 4062.	3.1	14
173	2. Fundamentals for utility system modelling. , 2020, , 29-65.		0
174	3. Utility systems â€“ an overview. , 2020, , 66-95.		0
175	4. Primary resources for energy supply. , 2020, , 96-128.		0
176	5. Steam generators. , 2020, , 131-153.		0
177	6. Steam turbines. , 2020, , 154-200.		1
178	7. Gas turbines. , 2020, , 201-238.		0
179	8. Steam network modelling. , 2020, , 241-263.		0
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