

Tareq Al-Ansari

List of Publications by Citations

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151
papers

2,509
citations

26
h-index

44
g-index

161
ext. papers

3,842
ext. citations

5.2
avg, IF

6.7
L-index

#	Paper	IF	Citations
151	A Review of Carbon Nanomaterials' Synthesis via the Chemical Vapor Deposition (CVD) Method. <i>Materials</i> , 2018 , 11,	3.5	186
150	Food waste to biochars through pyrolysis: A review. <i>Resources, Conservation and Recycling</i> , 2019 , 144, 310-320	11.9	150
149	Development of a life cycle assessment tool for the assessment of food production systems within the energy, water and food nexus. <i>Sustainable Production and Consumption</i> , 2015 , 2, 52-66	8.2	113
148	Quantifying the energy, water and food nexus: A review of the latest developments based on life-cycle assessment. <i>Journal of Cleaner Production</i> , 2018 , 193, 300-314	10.3	94
147	Production of syngas via gasification using optimum blends of biomass. <i>Journal of Cleaner Production</i> , 2020 , 242, 118499	10.3	90
146	Sustainable energy, water and food nexus systems: A focused review of decision-making tools for efficient resource management and governance. <i>Journal of Cleaner Production</i> , 2019 , 225, 610-626	10.3	86
145	An updated review of nanofluids in various heat transfer devices. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 145, 2817-2872	4.1	76
144	A techno-economic-environmental study evaluating the potential of oxygen-steam biomass gasification for the generation of value-added products. <i>Energy Conversion and Management</i> , 2019 , 196, 664-676	10.6	64
143	Integration of greenhouse gas control technologies within the energy, water and food nexus to enhance the environmental performance of food production systems. <i>Journal of Cleaner Production</i> , 2017 , 162, 1592-1606	10.3	60
142	A state of the art review on biomass processing and conversion technologies to produce hydrogen and its recovery via membrane separation. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 15166-15195	6.7	57
141	A review of carbon capture and utilisation as a CO ₂ abatement opportunity within the EWF nexus. <i>Journal of CO₂ Utilization</i> , 2021 , 45, 101432	7.6	57
140	Optimisation of the energy, water, and food nexus for food security scenarios. <i>Computers and Chemical Engineering</i> , 2019 , 129, 106513	4	55
139	An experimental study on stability and thermal conductivity of water/CNTs nanofluids using different surfactants: A comparison study. <i>Journal of Molecular Liquids</i> , 2020 , 304, 111025	6	54
138	A comparison of steam and oxygen fed biomass gasification through a techno-economic-environmental study. <i>Energy Conversion and Management</i> , 2020 , 208, 112612	10.6	44
137	A state of the art review on phosphate removal from water by biochars. <i>Chemical Engineering Journal</i> , 2021 , 409, 128211	14.7	44
136	Computational decision framework for enhancing resilience of the energy, water and food nexus in risky environments. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 112, 653-668	16.2	43
135	Techno-economic and sensitivity analysis of coconut coir pith-biomass gasification using ASPEN PLUS. <i>Applied Energy</i> , 2020 , 261, 114350	10.7	40

134	Thermodynamic evaluation and optimization of a flat plate collector operating with alumina and iron mono and hybrid nanofluids. <i>Sustainable Energy Technologies and Assessments</i> , 2020 , 37, 100636	4.7	38
133	Environmental Impact Assessment of Food Waste Management Using Two Composting Techniques. <i>Sustainability</i> , 2020 , 12, 1595	3.6	35
132	Thermodynamic analysis of an oxy-hydrogen combustor supported solar and wind energy-based sustainable polygeneration system for remote locations. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 3470-3483	6.7	33
131	Enhancing waste to hydrogen production through biomass feedstock blending: A techno-economic-environmental evaluation. <i>Applied Energy</i> , 2020 , 266, 114885	10.7	32
130	Sustainable food security decision-making: An agent-based modelling approach.. <i>Journal of Cleaner Production</i> , 2020 , 255, 120296	10.3	28
129	A review of cleaner alternative fuels for maritime transportation. <i>Energy Reports</i> , 2021 , 7, 1962-1985	4.6	28
128	Synergistic effects of catalytic co-pyrolysis of corn cob and HDPE waste mixtures using weight average global process model. <i>Renewable Energy</i> , 2021 , 170, 948-963	8.1	27
127	Adsorption/desorption of arsenite and arsenate on chitosan and nanochitosan. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 14734-14742	5.1	26
126	Wastewater reuse for livestock feed irrigation as a sustainable practice: A socio-environmental-economic review. <i>Journal of Cleaner Production</i> , 2021 , 294, 126331	10.3	26
125	Current status of biohydrogen production from lignocellulosic biomass, technical challenges and commercial potential through pyrolysis process. <i>Energy</i> , 2021 , 226, 120433	7.9	24
124	CO2 utilisation in agricultural greenhouses: A novel plant to plant approach driven by bioenergy with carbon capture systems within the energy, water and food Nexus. <i>Energy Conversion and Management</i> , 2021 , 228, 113668	10.6	24
123	Optimum Utilization of Biomass for the Production of Power and Fuels using Gasification. <i>Computer Aided Chemical Engineering</i> , 2018 , 1481-1486	0.6	23
122	Biomass-based integrated gasification combined cycle with post-combustion CO2 recovery by potassium carbonate: Techno-economic and environmental analysis. <i>Computers and Chemical Engineering</i> , 2020 , 135, 106758	4	22
121	Investigation of biomass components on the slow pyrolysis products yield using Aspen Plus for techno-economic analysis. <i>Biomass Conversion and Biorefinery</i> , 2020 , 1	2.3	22
120	Recent developments on sewage sludge pyrolysis and its kinetics: Resources recovery, thermogravimetric platforms, and innovative prospects. <i>Computers and Chemical Engineering</i> , 2021 , 150, 107325	4	21
119	Jatropha curcas for jet biofuel production: Current status and future prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 135, 110396	16.2	21
118	A comprehensive review of biomass based thermochemical conversion technologies integrated with CO2 capture and utilisation within BECCS networks. <i>Resources, Conservation and Recycling</i> , 2021 , 173, 105734	11.9	20
117	Biochar from vegetable wastes: agro-environmental characterization. <i>Biochar</i> , 2020 , 2, 439-453	10	19

116	Thermal degradation characteristics and gasification kinetics of camel manure using thermogravimetric analysis. <i>Journal of Environmental Management</i> , 2021 , 287, 112345	7.9	19
115	Critical review of solar thermal resources in GCC and application of nanofluids for development of efficient and cost effective CSP technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 91, 708-719	16.2	19
114	Thermodynamic analysis of an Energy-Water-Food (Ewf) nexus driven polygeneration system applied to coastal communities. <i>Energy Conversion and Management</i> , 2020 , 205, 112432	10.6	18
113	Phosphate removal from synthetic and treated sewage effluent by carbide derive carbon. <i>Journal of Water Process Engineering</i> , 2020 , 36, 101323	6.7	17
112	A critical review on the influence of process parameters in catalytic co-gasification: Current performance and challenges for a future prospectus. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 134, 110382	16.2	17
111	Thermo-environ study of a concentrated photovoltaic thermal system integrated with Kalina cycle for multigeneration and hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 26716-26732	6.7	17
110	Review of phosphate removal from water by carbonaceous sorbents. <i>Journal of Environmental Management</i> , 2021 , 287, 112245	7.9	17
109	Optimum sustainable utilisation of the whole fruit of <i>Jatropha curcas</i> : An energy, water and food nexus approach. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 137, 110605	16.2	16
108	A novel integrated pathway for Jet Biofuel production from whole energy crops: A <i>Jatropha curcas</i> case study. <i>Energy Conversion and Management</i> , 2021 , 229, 113662	10.6	16
107	Sustainable hydrogen roadmap: A holistic review and decision-making methodology for production, utilisation and exportation using Qatar as a case study. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	16
106	Superstructure Optimization for the Production of Fuels, Fertilizers and Power using Biomass Gasification. <i>Computer Aided Chemical Engineering</i> , 2019 , 301-306	0.6	15
105	Water planning framework for alfalfa fields using treated wastewater fertigation in Qatar: An energy-water-food nexus approach. <i>Computers and Chemical Engineering</i> , 2020 , 141, 106999	4	15
104	Application of the concept of a renewable energy based-polygeneration system for sustainable thermal desalination process: A thermodynamics' perspective. <i>International Journal of Energy Research</i> , 2020 , 44, 12344-12362	4.5	15
103	Integrated techno-economic optimization for the design and operations of energy, water and food nexus systems constrained as non-cooperative games. <i>Computer Aided Chemical Engineering</i> , 2018 , 1003-1008	0.6	15
102	Minimizing adsorbent requirements using multi-stage batch adsorption for malachite green removal using microwave date-stone activated carbons. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021 , 167, 108318	3.7	15
101	Performance investigation of multiwall carbon nanotubes based water/oil nanofluids for high pressure and high temperature solar thermal technologies for sustainable energy systems. <i>Energy Conversion and Management</i> , 2020 , 225, 113453	10.6	14
100	Maximising nutritional benefits within the energy, water and food nexus. <i>Journal of Cleaner Production</i> , 2020 , 266, 121877	10.3	13
99	Sustainable energy-water-food nexus integration and optimisation in eco-industrial parks. <i>Computers and Chemical Engineering</i> , 2021 , 146, 107229	4	13

98	Thermal degradation characteristics and kinetic study of camel manure pyrolysis. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106071	6.8	13
97	Roles of Technology in Improving Perishable Food Supply Chains. <i>Logistics</i> , 2020 , 4, 33	3.5	12
96	Novel approaches for geospatial risk analytics in the energy-water-food nexus using an EWF nexus node. <i>Computers and Chemical Engineering</i> , 2020 , 140, 106936	4	12
95	Gd-Doped Ni-Oxychloride Nanoclusters: New Nanoscale Electrocatalysts for High-Performance Water Oxidation through Surface and Structural Modification. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 468-479	9.5	12
94	Carbide Derived Carbon (CDC) as novel adsorbent for ibuprofen removal from synthetic water and treated sewage effluent. <i>Journal of Environmental Health Science & Engineering</i> , 2020 , 18, 1375-1390	2.9	12
93	Air catalytic biomass (PKS) gasification in a fixed-bed downdraft gasifier using waste bottom ash as catalyst with NARX neural network modelling. <i>Computers and Chemical Engineering</i> , 2020 , 142, 107048	4	12
92	Integration of Biomass Gasification and CO ₂ Capture in the LCA Model for the Energy, Water and Food Nexus. <i>Computer Aided Chemical Engineering</i> , 2016 , 38, 2085-2090	0.6	12
91	Simulation of Food Waste Pyrolysis for the Production of Biochar: A Qatar Case Study. <i>Computer Aided Chemical Engineering</i> , 2019 , 46, 901-906	0.6	12
90	A simulation study on the effect of CO ₂ injection on the performance of the GTL process. <i>Computers and Chemical Engineering</i> , 2020 , 136, 106768	4	11
89	Sustainable Liquefied Natural Gas Supply Chain Management: A Review of Quantitative Models. <i>Sustainability</i> , 2020 , 12, 243	3.6	10
88	Characterization and Reactivity Study of Coal Bottom Ash for Utilization in Biomass Gasification as an Adsorbent/Catalyst for Cleaner Fuel Production. <i>Energy & Fuels</i> , 2019 , 33, 11318-11327	4.1	10
87	Global plastic waste management strategies (Technical and behavioral) during and after COVID-19 pandemic for cleaner global urban life. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 1-10	1.6	10
86	Applying a Sustainability Metric in Energy, Water and Food Nexus Applications; A Biomass Utilization Case Study to Improve Investment Decisions. <i>Computer Aided Chemical Engineering</i> , 2019 , 46, 205-210	0.6	9
85	A Review of Evapotranspiration Measurement Models, Techniques and Methods for Open and Closed Agricultural Field Applications. <i>Water (Switzerland)</i> , 2021 , 13, 2523	3	9
84	Assessment of technology portfolios with enhanced economic and environmental performance for the energy, water and food nexus. <i>Computer Aided Chemical Engineering</i> , 2018 , 537-542	0.6	8
83	Techno-economic-based dynamic network design for optimum large-scale carbon dioxide utilisation in process industries. <i>Journal of Cleaner Production</i> , 2020 , 275, 122974	10.3	8
82	A novel solution towards zero waste in dairy farms: A thermodynamic study of an integrated polygeneration approach. <i>Energy Conversion and Management</i> , 2021 , 230, 113753	10.6	8
81	Pyrolysis Study of Different Fruit Wastes Using an Aspen Plus Model. <i>Frontiers in Sustainable Food Systems</i> , 2021 , 5,	4.8	8

80	Performance comparison of a natural gas and renewable-based power and desalination system for polygeneration 2020 , 10, 678-702		7
79	Optimisation of the removal of arsenate from water using nanochitosan 2020 , 7, 235-243		7
78	Comparing the convergence and divergence within industrial ecology, circular economy, and the energy-water-food nexus based on resource management objectives. <i>Sustainable Production and Consumption</i> , 2021 , 27, 1743-1761	8.2	7
77	System-Level Optimisation of Combined Power and Desalting Plants. <i>Computer Aided Chemical Engineering</i> , 2019 , 1699-1704	0.6	7
76	Role of analytics within the energy, water and food nexus – An Alfalfa case study. <i>Computer Aided Chemical Engineering</i> , 2018 , 44, 997-1002	0.6	7
75	Energy utilization assessment of a semi-closed greenhouse using data-driven model predictive control. <i>Journal of Cleaner Production</i> , 2021 , 324, 129172	10.3	7
74	Active Carbon from Microwave Date Stones for Toxic Dye Removal: Setting the Design Capacity. <i>Chemical Engineering and Technology</i> , 2020 , 43, 1841-1849	2	6
73	The Role of Nanofluids and Renewable Energy in the Development of Sustainable Desalination Systems: A Review. <i>Water (Switzerland)</i> , 2020 , 12, 2002	3	6
72	The impact of pyrolysis conditions on orange peel biochar physicochemical properties for sandy soil. <i>Waste Management and Research</i> , 2021 , 39, 995-1004	4	6
71	Effect of heating rate on the pyrolysis of camel manure. <i>Biomass Conversion and Biorefinery</i> , 2021 , 1	2.3	6
70	Conceptualising multi-scale thermodynamics within the energy-water-food nexus: Progress towards resource and waste management. <i>Computers and Chemical Engineering</i> , 2021 , 152, 107375	4	6
69	Potential of drop-in biofuel production from camel manure by hydrothermal liquefaction and biocrude upgrading: A Qatar case study. <i>Energy</i> , 2021 , 232, 121027	7.9	6
68	Grid integration of renewable energy in Qatar: Potentials and limitations. <i>Energy</i> , 2021 , 235, 121310	7.9	6
67	Optimization of process and properties of biochar from cabbage waste by response surface methodology. <i>Biomass Conversion and Biorefinery</i> , 2020 , 1	2.3	5
66	An energy, water and food nexus approach aiming to enhance food production systems through CO ₂ fertilization. <i>Computer Aided Chemical Engineering</i> , 2018 , 43, 1487-1492	0.6	5
65	Development of a Life Cycle Assessment Model for the Analysis of the Energy, Water and Food Nexus. <i>Computer Aided Chemical Engineering</i> , 2014 , 33, 1039-1044	0.6	5
64	Treated Industrial Wastewater as a Water and Nutrients Source for Tomatoes Cultivation: an Optimisation Approach. <i>Computer Aided Chemical Engineering</i> , 2020 , 48, 1819-1824	0.6	5
63	Reduced-order Modelling (ROM) Approach for Optimal Microclimate Control in Agricultural Greenhouses. <i>Computer Aided Chemical Engineering</i> , 2020 , 48, 1879-1884	0.6	5

62	Network Optimization Model for a Sustainable Supply Network for Greenhouses. <i>Computer Aided Chemical Engineering</i> , 2020 , 1885-1890	0.6	5
61	Integration of wind turbine with heliostat based CSP/CPVT system for hydrogen production and polygeneration: A thermodynamic comparison. <i>International Journal of Hydrogen Energy</i> , 2020 ,	6.7	5
60	Assessment of water quality variations on pretreatment and environmental impacts of SWRO desalination. <i>Desalination</i> , 2021 , 500, 114831	10.3	5
59	A nanomaterial integrated technology approach to enhance the energy-water-food nexus. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 145, 111118	16.2	5
58	Design and thermodynamic assessment of a solar powered energy-food-water nexus driven multigeneration system. <i>Energy Reports</i> , 2021 , 7, 3033-3049	4.6	5
57	How circular design can contribute to social sustainability and legacy of the FIFA World Cup Qatar 2022? The case of innovative shipping container stadium. <i>Environmental Impact Assessment Review</i> , 2021 , 91, 106665	5.3	5
56	An Energy-Water-Food Nexus-based Decision-making Framework to Guide National Priorities in Qatar. <i>Sustainable Cities and Society</i> , 2021 , 75, 103342	10.1	5
55	A critical review on co-gasification and co-pyrolysis for gas production. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 161, 112349	16.2	5
54	The potential for carbon dioxide capture and utilization within the State of Qatar.. <i>Computer Aided Chemical Engineering</i> , 2018 , 43, 1499-1504	0.6	4
53	A review on prominent animal and municipal wastes as potential feedstocks for solar pyrolysis for biochar production. <i>Fuel</i> , 2022 , 316, 123378	7.1	4
52	Swarm Optimisation for Shipping Fleet Scheduling, Routing and Delivery in Sustainable Liquefied Natural Gas (LNG) Supply Chain Models. <i>Computer Aided Chemical Engineering</i> , 2020 , 1225-1230	0.6	4
51	Thermogravimetric Analysis of Individual Food Waste Items and their Blends for Biochar Production. <i>Computer Aided Chemical Engineering</i> , 2020 , 48, 1543-1548	0.6	4
50	Modelling and simulation of a biomass-based integrated gasification combined cycle with carbon capture: comparison between monoethanolamine and potassium carbonate. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020 , 463, 012019	0.3	4
49	Stability and thermophysical properties test of carbide-derived carbon thermal fluid; a comparison between functionalized and emulsified suspensions. <i>Powder Technology</i> , 2021 , 377, 415-428	5.2	4
48	Biochar development from thermal TGA studies of individual food waste vegetables and their blended systems. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	4
47	A Model based analysis in applying Anderson-Schulz-Blory (ASF) equation with CO ₂ Utilisation on the Fischer Tropsch Gas-to-liquid Process. <i>Computer Aided Chemical Engineering</i> , 2019 , 46, 397-402	0.6	3
46	Role of wastewater in achieving carbon and water neutral agricultural production. <i>Journal of Cleaner Production</i> , 2022 , 339, 130706	10.3	3
45	Bio-methanol production from palm wastes steam gasification with application of CaO for CO ₂ capture: Sensitivity and techno-economic-environmental analysis. <i>Journal of Cleaner Production</i> , 2022 , 130849	10.3	3

44	Evaluating LNG Supply Chain Resilience Using SWOT Analysis: The Case of Qatar. <i>Energies</i> , 2022 , 15, 79	3.1	3
43	Sorption of heavy metal ions onto e-waste-derived ion-exchange material: Selecting the optimum isotherm	126, 196-207	3
42	A network model-based optimisation analysis for the utilisation of CO ₂ in Qatar's chemical industries. <i>Computer Aided Chemical Engineering</i> , 2019 , 46, 295-300	0.6	3
41	Optimising Multi Biomass Feedstock Utilisation Considering a Multi Technology Approach. <i>Computer Aided Chemical Engineering</i> , 2020 , 1633-1638	0.6	3
40	Thermal Performance Optimization of a Parabolic Trough Collector Operating With Various Working Fluids Using Copper Nanoparticles. <i>Journal of Thermal Science and Engineering Applications</i> , 2021 , 13,	1.9	3
39	Investigation of Groundwater Depletion in the State of Qatar and Its Implication to Energy Water and Food Nexus. <i>Water (Switzerland)</i> , 2021 , 13, 2464	3	3
38	A novel integrated wastewater recovery, clean water production and air-conditioning system. <i>Energy Conversion and Management</i> , 2021 , 244, 114525	10.6	3
37	Char Products From Bamboo Waste Pyrolysis and Acid Activation. <i>Frontiers in Materials</i> , 2021 , 7,	4	3
36	Energy, Water, Food Nexus Decision-Making for Sustainable Food Security. <i>Environmental Footprints and Eco-design of Products and Processes</i> , 2021 , 191-216	0.9	3
35	Decisions on design and planning of solar-assisted hydroponic farms under various subsidy schemes. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 156, 111958	16.2	2
34	Kinetic and thermodynamic investigations of surfactants adsorption from water by carbide-derived carbon. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2021 , 56, 1206-1220	2.3	2
33	Quantitative Risk Assessment and Management for CO ₂ Utilisation Industrial Network. <i>Computer Aided Chemical Engineering</i> , 2020 , 1909-1914	0.6	2
32	Simulation-based reinforcement learning for delivery fleet optimisation in CO ₂ fertilisation networks to enhance food production systems. <i>Computer Aided Chemical Engineering</i> , 2019 , 1507-1512	0.6	2
31	Utilisation of Carbon Dioxide and Gasified Biomass for the Generation of Value Added Products. <i>Computer Aided Chemical Engineering</i> , 2021 , 1567-1572	0.6	2
30	Parametric investigation of a chilled water district cooling unit using mono and hybrid nanofluids. <i>Scientific Reports</i> , 2021 , 11, 19227	4.9	2
29	Reuse of treated industrial wastewater and bio-solids from oil and gas industries: Exploring new factors of public acceptance. <i>Water Resources and Industry</i> , 2021 , 26, 100159	4.5	2
28	Pyrolysis characteristics, kinetic, and thermodynamic analysis of camel dung, date stone, and their blend using thermogravimetric analysis. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	1
27	Optimum Utilization of Jatropha Seedcake Considering the Energy, Water and Food Nexus. <i>Computer Aided Chemical Engineering</i> , 2020 , 48, 229-234	0.6	1

26	Potential Integrated Pathways for Jet Biofuel Production from Whole Fruit of Jatropha. <i>Computer Aided Chemical Engineering</i> , 2020 , 235-240	0.6	1
25	Livestock Production Planning with Batch-lines in the Agriculture Industry. <i>Computer Aided Chemical Engineering</i> , 2020 , 48, 463-468	0.6	1
24	Portfolio Optimisation of Integrated Renewable Energy Cogeneration Systems. <i>Computer Aided Chemical Engineering</i> , 2020 , 1435-1440	0.6	1
23	Thermodynamic analysis of gravity assisted solar-powered reverse osmosis unit for greenhouses situated in a depleted zone. <i>Case Studies in Thermal Engineering</i> , 2021 , 25, 100990	5.6	1
22	Economic Optimization of Qatar's Hydrocarbon-based Fuels for Sustainable Maritime Applications. <i>Computer Aided Chemical Engineering</i> , 2021 , 50, 1553-1558	0.6	1
21	Statistical Decision-Theoretic Risk Management for Planning Renewable Energy Pathways. <i>Computer Aided Chemical Engineering</i> , 2021 , 1795-1801	0.6	1
20	Unmanned aerial vehicles in precision agriculture towards circular economy: a process system engineering (PSE) assessment. <i>Computer Aided Chemical Engineering</i> , 2021 , 50, 1559-1565	0.6	1
19	Predicting Microclimate of a Closed Greenhouse Using Support Vector Machine Regression. <i>Computer Aided Chemical Engineering</i> , 2021 , 1229-1234	0.6	1
18	Design and analysis of a renewable energy driven greenhouse integrated with a solar still for arid climates. <i>Energy Conversion and Management</i> , 2022 , 258, 115512	10.6	1
17	Evaluation of Oxygen and Steam Fed Biomass Gasification Within Energy, Water, and Food Nexus. <i>Advances in Science, Technology and Innovation</i> , 2022 , 499-508	0.3	1
16	Evaluating the utilisation of clean fuels in maritime applications: A techno-economic supply chain optimization. <i>Fuel</i> , 2022 , 322, 124195	7.1	1
15	Technical readiness level of biohydrogen production process and its value chain 2022 , 335-355		0
14	Energy, water and food security through a waste-driven polygeneration system for sustainable dairy production. <i>International Journal of Hydrogen Energy</i> , 2021 , 47, 3185-3185	6.7	0
13	Development of a Computational Intelligence Framework for the Strategic Design and Implementation of Large-scale Biomass Supply Chains. <i>Computer Aided Chemical Engineering</i> , 2020 , 48, 1627-1632	0.6	0
12	Optimising the Sustainability Performance of an Industrial Park: an Energy-Water-Food Nexus. <i>Computer Aided Chemical Engineering</i> , 2021 , 50, 1505-1510	0.6	0
11	Thermodynamic analysis of a renewable energy-water-food nexus: A trade-off analysis of integrated desalination, gasification and food systems. <i>Case Studies in Thermal Engineering</i> , 2022 , 102024	5.6	0
10	Developing operational resilience within CO ₂ utilisation networks: Towards ensuring business continuity through risk management. <i>Computers and Chemical Engineering</i> , 2022 , 161, 107746	4	0
9	A computational modelling approach based on the Energy - Water - Food nexus model to support decision-making for sustainable and resilient food security. <i>Computers and Chemical Engineering</i> , 2022 , 107846	4	0

8	Developing intelligence in food security: An agent-based modelling approach of Qatar's food system interactions under socio-economic and environmental considerations. <i>Sustainable Production and Consumption</i> , 2022 , 32, 669-689	8.2	o
7	Maximising Food Security through a Macronutrient Optimisation Approach Considering Energy and Water Constraints. <i>Computer Aided Chemical Engineering</i> , 2020 , 48, 1837-1842	0.6	
6	An Agent-based Model for Sustainable Power Generation using Optimal Biomass Utilisation. <i>Computer Aided Chemical Engineering</i> , 2020 , 1849-1854	0.6	
5	Satellite based Vegetation Indices variables for Crop Water Footprint Assessment. <i>Computer Aided Chemical Engineering</i> , 2019 , 46, 1489-1494	0.6	
4	Thermodynamic Optimization of a Biomass-based Integrated Gasification Combined Cycle with Post Combustion Carbon Capture using Potassium Carbonate. <i>Computer Aided Chemical Engineering</i> , 2021 , 695-701	0.6	
3	Optimising the energy, water and food nexus node to support decision making for sustainable food security in Risky Environments. <i>Computer Aided Chemical Engineering</i> , 2021 , 50, 1689-1694	0.6	
2	A techno-economic assessment of an on-site biocrude production from sewage sludge in Qatar's wastewater treatment plants. <i>Computer Aided Chemical Engineering</i> , 2021 , 1929-1935	0.6	
1	Utilisation of CO ₂ in transnational LNG supply chain for the enhancement of jet fuel production in globally decentralised GTL industries. <i>Computer Aided Chemical Engineering</i> , 2021 , 1485-1490	0.6	