

Sheila Samsatli

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,754
citations

361045

20
h-index

360668

35
g-index

41
all docs

41
docs citations

41
times ranked

1900
citing authors

#	ARTICLE	IF	CITATIONS
1	Technologies and infrastructures underpinning future CO ₂ value chains: A comprehensive review and comparative analysis. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 85, 46-68.	8.2	171
2	Optimal design and operation of integrated wind-hydrogen-electricity networks for decarbonising the domestic transport sector in Great Britain. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 447-475.	3.8	167
3	Power-to-gas for injection into the gas grid: What can we learn from real-life projects, economic assessments and systems modelling?. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 98, 302-316.	8.2	164
4	The role of renewable hydrogen and inter-seasonal storage in decarbonising heat – Comprehensive optimisation of future renewable energy value chains. <i>Applied Energy</i> , 2019, 233-234, 854-893.	5.1	119
5	Bio-aviation Fuel: A Comprehensive Review and Analysis of the Supply Chain Components. <i>Frontiers in Energy Research</i> , 0, 8, .	1.2	115
6	A general spatio-temporal model of energy systems with a detailed account of transport and storage. <i>Computers and Chemical Engineering</i> , 2015, 80, 155-176.	2.0	82
7	The curious case of the conflicting roles of hydrogen in global energy scenarios. <i>Sustainable Energy and Fuels</i> , 2020, 4, 80-95.	2.5	77
8	A multi-objective MILP model for the design and operation of future integrated multi-vector energy networks capturing detailed spatio-temporal dependencies. <i>Applied Energy</i> , 2018, 220, 893-920.	5.1	76
9	Should we inject hydrogen into gas grids? Practicalities and whole-system value chain optimisation. <i>Applied Energy</i> , 2020, 275, 115172.	5.1	75
10	Fuel cell systems optimisation – Methods and strategies. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 14678-14703.	3.8	69
11	Parametric analysis and optimization for exergoeconomic performance of a combined system based on solid oxide fuel cell-gas turbine and supercritical carbon dioxide Brayton cycle. <i>Energy Conversion and Management</i> , 2019, 186, 66-81.	4.4	68
12	The value of hydrogen and carbon capture, storage and utilisation in decarbonising energy: Insights from integrated value chain optimisation. <i>Applied Energy</i> , 2020, 257, 113936.	5.1	67
13	BVCM: A comprehensive and flexible toolkit for whole system biomass value chain analysis and optimisation – Mathematical formulation. <i>Applied Energy</i> , 2015, 147, 131-160.	5.1	65
14	Biorefineries and the food, energy, water nexus – towards a whole systems approach to design and planning. <i>Current Opinion in Chemical Engineering</i> , 2017, 18, 16-22.	3.8	55
15	A multi-objective optimisation model for a general polymer electrolyte membrane fuel cell system. <i>Journal of Power Sources</i> , 2010, 195, 2754-2763.	4.0	53
16	A general mixed integer linear programming model for the design and operation of integrated urban energy systems. <i>Journal of Cleaner Production</i> , 2018, 191, 458-479.	4.6	52
17	Optimization of oil palm empty fruit bunches value chain in Peninsular Malaysia. <i>Food and Bioproducts Processing</i> , 2020, 119, 179-194.	1.8	30
18	Oil palm mapping over Peninsular Malaysia using Google Earth Engine and machine learning algorithms. <i>Remote Sensing Applications: Society and Environment</i> , 2020, 17, 100287.	0.8	29

#	ARTICLE	IF	CITATIONS
19	Design of biomass value chains that are synergistic with the foodâ€“energyâ€“water nexus: Strategies and opportunities. Food and Bioproducts Processing, 2019, 116, 170-185.	1.8	25
20	How to incentivise hydrogen energy technologies for net zero: Whole-system value chain optimisation of policy scenarios. Sustainable Production and Consumption, 2021, 27, 1215-1238.	5.7	24
21	Sustainable bio-economy that delivers the environmentâ€“foodâ€“energyâ€“water nexus objectives: The current status in Malaysia. Food and Bioproducts Processing, 2019, 118, 167-186.	1.8	23
22	H2FC SUPERGEN: An overview of the Hydrogen and Fuel Cell research across the UK. International Journal of Hydrogen Energy, 2015, 40, 5534-5543.	3.8	21
23	How much land is available for sustainable palm oil?. Land Use Policy, 2021, 102, 105187.	2.5	21
24	Integrating fuzzy analytic hierarchy process into a multi-objective optimisation model for planning sustainable oil palm value chains. Food and Bioproducts Processing, 2020, 119, 48-74.	1.8	20
25	Mapping the spatial distribution and changes of oil palm land cover using an open source cloud-based mapping platform. International Journal of Remote Sensing, 2019, 40, 7459-7476.	1.3	18
26	Integrated production of food, energy, fuels and chemicals from rice crops: Multi-objective optimisation for efficient and sustainable value chains. Journal of Cleaner Production, 2021, 285, 124900.	4.6	14
27	Modelling and optimisation of oil palm biomass value chains and the environmentâ€“foodâ€“energyâ€“water nexus in peninsular Malaysia. Biomass and Bioenergy, 2021, 144, 105912.	2.9	13
28	Power-to-hydrogen and hydrogen-to-X pathways: Opportunities for next generation energy systems. , 2017, , .		8
29	Design of fuelâ€“cell microâ€“cogeneration systems through modeling and optimization. Wiley Interdisciplinary Reviews: Energy and Environment, 2012, 1, 181-193.	1.9	5
30	Power-to-hydrogen and hydrogen-to-X: Which markets? Which economic potential? Answers from the literature. , 2017, , .		5
31	A Fuzzy Analytic Hierarchy Process (FAHP) Approach to Multi-Objective Optimisation of Oil Palm Value Chains. Computer Aided Chemical Engineering, 2019, 46, 817-822.	0.3	5
32	Optimal Design and Operation of Heat Networks Utilising Hydrogen as an Energy Carrier. Computer Aided Chemical Engineering, 2017, 40, 2527-2532.	0.3	4
33	Best options for large-scale production of liquid biofuels by value chain modelling: A New Zealand case study. Applied Energy, 2022, 323, 119534.	5.1	4
34	A model for the multi-objective optimisation of a polymer electrolyte fuel cell micro-combined heat and power system. Computer Aided Chemical Engineering, 2010, , 949-954.	0.3	2
35	Multi-objective spatio-temporal optimisation for simultaneous planning, design and operation of sustainable and efficient value chains for rice crop. Computer Aided Chemical Engineering, 2019, 46, 1453-1458.	0.3	2
36	Resource and technology data for spatio-temporal value chain modelling of the Great Britain energy system. Data in Brief, 2020, 31, 105886.	0.5	2

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37	Whole-Systems Modelling of Alternatives for Future Domestic Transport. Computer Aided Chemical Engineering, 2016, 38, 457-462.	0.3	1
38	Food and bioenergy: capturing the synergies and conflicts in the design of value chains through spatio-temporal multi-objective optimisation. Computer Aided Chemical Engineering, 2018, 44, 1873-1878.	0.3	0
39	Data for spatio-temporal modelling and optimisation of multi-product rice value chains. Data in Brief, 2021, 34, 106694.	0.5	0
40	Renewable electricity integration at a regional level: Cantabria case study. Computer Aided Chemical Engineering, 2016, 38, 211-216.	0.3	0