Simon Harvey

List of Publications by Year in descending order

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43 papers	921 citations	393982 19 h-index	476904 29 g-index
45 all docs	45 docs citations	45 times ranked	913 citing authors

#	Article	IF	Citations
1	Efficient heat integration of industrial CO2 capture and district heating supply. International Journal of Greenhouse Gas Control, 2022, 118, 103689.	2.3	10
2	The role of energy supply in abatement cost curves for CO2 capture from process industry â€“ A case study of a Swedish refinery. Applied Energy, 2022, 319, 119273.	5.1	7
3	A computational tool for guiding retrofit projects of industrial heat recovery systems subject to variation in operating conditions. Applied Thermal Engineering, 2021, 182, 115648.	3.0	3
4	Costs vs. Flexibility of Process Heat Recovery Solutions Considering Short-Term Process Variability and Uncertain Long-Term Development. Frontiers in Chemical Engineering, 2021, 3, .	1.3	4
5	Potential for Negative Emissions by Carbon Capture and Storage From a Novel Electric Plasma Calcination Process for Pulp and Paper Mills. Frontiers in Climate, 2021, 3, .	1.3	8
6	Life-cycle impact assessment methods for physical energy scarcity: considerations and suggestions. International Journal of Life Cycle Assessment, 2021, 26, 2339-2354.	2.2	7
7	Electricity Generation from Low and Medium Temperature Industrial Excess Heat in the Kraft Pulp and Paper Industry. Energies, 2021, 14, 8499.	1.6	3
8	Integration of algaeâ€based biofuel production with an oil refinery: Energy and carbon footprint assessment. International Journal of Energy Research, 2020, 44, 10860-10877.	2.2	12
9	Operability and Technical Implementation Issues Related to Heat Integration Measuresâ€”Interview Study at an Oil Refinery in Sweden. Energies, 2020, 13, 3478.	1.6	6
10	Economic Evaluation of Large-Scale Biorefinery Deployment: A Framework Integrating Dynamic Biomass Market and Techno-Economic Models. Sustainability, 2020, 12, 7126.	1.6	42
11	Bottomâ€“Up Assessment Framework for Electrification Options in Energy-Intensive Process Industries. Frontiers in Energy Research, 2020, 8, .	1.2	20
12	Renewable OME from biomass and electricityâ€”Evaluating carbon footprint and energy performance. Energy Science and Engineering, 2020, 8, 2587-2598.	1.9	13
13	Economic potential for substitution of fossil fuels with liquefied biomethane in Swedish iron and steel industry â€“ Synergy and competition with other sectors. Energy Conversion and Management, 2020, 209, 112641.	4.4	27
14	Studying the Role of System Aggregation in Energy Targeting: A Case Study of a Swedish Oil Refinery. Energies, 2020, 13, 958.	1.6	5
15	Holistic methodological framework for assessing the benefits of delivering industrial excess heat to a district heating network. International Journal of Energy Research, 2020, 44, 2634-2651.	2.2	15
16	A Framework for Flexible and Cost-Efficient Retrofit Measures of Heat Exchanger Networks. Energies, 2020, 13, 1472.	1.6	11
17	Assessing the value of a diversified by-product portfolio to allow for increased production flexibility in pulp mills. Nordic Pulp and Paper Research Journal, 2020, 35, 533-558.	0.3	3
18	Lifecycle energy and greenhouse gas emissions analysis of biomassâ€based 2â€ethylhexanol as an alternative transportation fuel. Energy Science and Engineering, 2019, 7, 851-867.	1.9	12

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19	Characterization and visualization of industrial excess heat for different levels of onâ€site process heat recovery. International Journal of Energy Research, 2019, 43, 7988-8003.	2.2	13
20	Bark as feedstock for dual fluidized bed gasifiers-Operability, efficiency, and economics. International Journal of Energy Research, 2019, 43, 1171-1190.	2.2	23
21	A feasibility study of improved heat recovery and excess heat export at a Swedish chemical complex site. International Journal of Energy Research, 2018, 42, 1580-1593.	2.2	7
22	Forest residues gasification integrated with electrolysis for production of SNG â€“ modelling and assessment. Computer Aided Chemical Engineering, 2018, 44, 109-114.	0.3	2
23	Value chains for integrated production of liquefied bio-SNG at sawmill sites â€“ Techno-economic and carbon footprint evaluation. Applied Energy, 2017, 206, 1590-1608.	5.1	15
24	A Steam Utility Network Model for the Evaluation of Heat Integration Retrofits â€“ A Case Study of an Oil Refinery. Journal of Sustainable Development of Energy, Water and Environment Systems, 2017, 5, 560-578.	0.9	16
25	Comparative thermodynamic analysis of biomass gasification-based light olefin production using methanol or DME as the platform chemical. Chemical Engineering Research and Design, 2016, 115, 182-194.	2.7	20
26	Optimization of process configuration and strain selection for microalgae-based biodiesel production. Bioresource Technology, 2015, 193, 25-34.	4.8	32
27	From heat integration targets toward implementation â€“ A TSA (total site analysis)-based design approach for heat recovery systems in industrial clusters. Energy, 2015, 90, 163-172.	4.5	30
28	Biomass gasification-based syngas production for a conventional oxo synthesis plantâ€”greenhouse gas emission balances and economic evaluation. Journal of Cleaner Production, 2015, 99, 192-205.	4.6	24
29	Targeting capital cost of excess heat collection systems in complex industrial sites for district heating applications. Energy, 2015, 91, 465-478.	4.5	15
30	Impact of choice of CO₂separation technology on thermo-economic performance of Bio-SNG production processes. International Journal of Energy Research, 2014, 38, 299-318.	2.2	49
31	Biomass Gasification-Based Syngas Production for a Conventional Oxo Synthesis Plantâ€”Process Modeling, Integration Opportunities, and Thermodynamic Performance. Energy & Fuels, 2014, 28, 4075-4087.	2.5	23
32	Economic feasibility of district heating delivery from industrial excess heat: A case study of a Swedish petrochemical cluster. Energy, 2014, 65, 209-220.	4.5	45
33	Comparison of options for utilization of a potential steam surplus at kraft pulp mills-Economic performance and CO₂emissions. International Journal of Energy Research, 2013, 37, 1017-1035.	2.2	21
34	Applying exergy and total site analysis for targeting refrigeration shaft power in industrial clusters. Energy, 2013, 55, 5-14.	4.5	31
35	Framework methodology for increased energy efficiency and renewable feedstock integration in industrial clusters. Applied Energy, 2013, 112, 1500-1509.	5.1	43
36	Exergy-based comparison of indirect and direct biomass gasification technologies within the framework of bio-SNG production. Biomass Conversion and Biorefinery, 2013, 3, 337-352.	2.9	24

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37	Assessment of the energy and economic performance of second generation biofuel production processes using energy market scenarios. Applied Energy, 2013, 101, 203-212.	5.1	53
38	Extending existing combined heat and power plants for synthetic natural gas production. International Journal of Energy Research, 2012, 36, 670-681.	2.2	35
39	Targeting for energy efficiency and improved energy collaboration between different companies using total site analysis (TSA). Energy, 2011, 36, 4609-4615.	4.5	84
40	CO2 emission balances for different black liquor gasification biorefinery concepts for production of electricity or second-generation liquid biofuels. Energy, 2010, 35, 1101-1106.	4.5	60
41	Energy efficiency investments in Kraft pulp mills given uncertain climate policy. International Journal of Energy Research, 2007, 31, 486-505.	2.2	30
42	Assessing the value of pulp mill biomass savings in a climate change conscious economy. Energy Policy, 2006, 34, 2330-2343.	4.2	8
43	Double Yields and Negative Emissions? Resource, Climate and Cost Efficiencies in Biofuels With Carbon Capture, Storage and Utilization. Frontiers in Energy Research, 0, 10, .	1.2	5