

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	Targeting for energy efficiency and improved energy collaboration between different companies using total site analysis (TSA). <i>Energy</i> , 2011, 36, 4609-4615.	4.5	84
2	CO ₂ emission balances for different black liquor gasification biorefinery concepts for production of electricity or second-generation liquid biofuels. <i>Energy</i> , 2010, 35, 1101-1106.	4.5	60
3	Assessment of the energy and economic performance of second generation biofuel production processes using energy market scenarios. <i>Applied Energy</i> , 2013, 101, 203-212.	5.1	53
4	Impact of choice of CO ₂ separation technology on thermo-economic performance of Bio-SNG production processes. <i>International Journal of Energy Research</i> , 2014, 38, 299-318.	2.2	49
5	Economic feasibility of district heating delivery from industrial excess heat: A case study of a Swedish petrochemical cluster. <i>Energy</i> , 2014, 65, 209-220.	4.5	45
6	Framework methodology for increased energy efficiency and renewable feedstock integration in industrial clusters. <i>Applied Energy</i> , 2013, 112, 1500-1509.	5.1	43
7	Economic Evaluation of Large-Scale Biorefinery Deployment: A Framework Integrating Dynamic Biomass Market and Techno-Economic Models. <i>Sustainability</i> , 2020, 12, 7126.	1.6	42
8	Extending existing combined heat and power plants for synthetic natural gas production. <i>International Journal of Energy Research</i> , 2012, 36, 670-681.	2.2	35
9	Optimization of process configuration and strain selection for microalgae-based biodiesel production. <i>Bioresource Technology</i> , 2015, 193, 25-34.	4.8	32
10	Applying exergy and total site analysis for targeting refrigeration shaft power in industrial clusters. <i>Energy</i> , 2013, 55, 5-14.	4.5	31
11	Energy efficiency investments in Kraft pulp mills given uncertain climate policy. <i>International Journal of Energy Research</i> , 2007, 31, 486-505.	2.2	30
12	From heat integration targets toward implementation – A TSA (total site analysis)-based design approach for heat recovery systems in industrial clusters. <i>Energy</i> , 2015, 90, 163-172.	4.5	30
13	Economic potential for substitution of fossil fuels with liquefied biomethane in Swedish iron and steel industry – Synergy and competition with other sectors. <i>Energy Conversion and Management</i> , 2020, 209, 112641.	4.4	27
14	Exergy-based comparison of indirect and direct biomass gasification technologies within the framework of bio-SNG production. <i>Biomass Conversion and Biorefinery</i> , 2013, 3, 337-352.	2.9	24
15	Biomass gasification-based syngas production for a conventional oxo synthesis plant – greenhouse gas emission balances and economic evaluation. <i>Journal of Cleaner Production</i> , 2015, 99, 192-205.	4.6	24
16	Biomass Gasification-Based Syngas Production for a Conventional Oxo Synthesis Plant – Process Modeling, Integration Opportunities, and Thermodynamic Performance. <i>Energy & Fuels</i> , 2014, 28, 4075-4087.	2.5	23
17	Bark as feedstock for dual fluidized bed gasifiers-Operability, efficiency, and economics. <i>International Journal of Energy Research</i> , 2019, 43, 1171-1190.	2.2	23
18	Comparison of options for utilization of a potential steam surplus at kraft pulp mills-Economic performance and CO ₂ emissions. <i>International Journal of Energy Research</i> , 2013, 37, 1017-1035.	2.2	21

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19	Comparative thermodynamic analysis of biomass gasification-based light olefin production using methanol or DME as the platform chemical. <i>Chemical Engineering Research and Design</i> , 2016, 115, 182-194.	2.7	20
20	Bottom-up Assessment Framework for Electrification Options in Energy-Intensive Process Industries. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	20
21	A Steam Utility Network Model for the Evaluation of Heat Integration Retrofits – A Case Study of an Oil Refinery. <i>Journal of Sustainable Development of Energy, Water and Environment Systems</i> , 2017, 5, 560-578.	0.9	16
22	Targeting capital cost of excess heat collection systems in complex industrial sites for district heating applications. <i>Energy</i> , 2015, 91, 465-478.	4.5	15
23	Value chains for integrated production of liquefied bio-SNG at sawmill sites – Techno-economic and carbon footprint evaluation. <i>Applied Energy</i> , 2017, 206, 1590-1608.	5.1	15
24	Holistic methodological framework for assessing the benefits of delivering industrial excess heat to a district heating network. <i>International Journal of Energy Research</i> , 2020, 44, 2634-2651.	2.2	15
25	Characterization and visualization of industrial excess heat for different levels of on-site process heat recovery. <i>International Journal of Energy Research</i> , 2019, 43, 7988-8003.	2.2	13
26	Renewable OME from biomass and electricity – Evaluating carbon footprint and energy performance. <i>Energy Science and Engineering</i> , 2020, 8, 2587-2598.	1.9	13
27	Lifecycle energy and greenhouse gas emissions analysis of biomass-based 2-ethylhexanol as an alternative transportation fuel. <i>Energy Science and Engineering</i> , 2019, 7, 851-867.	1.9	12
28	Integration of algae-based biofuel production with an oil refinery: Energy and carbon footprint assessment. <i>International Journal of Energy Research</i> , 2020, 44, 10860-10877.	2.2	12
29	A Framework for Flexible and Cost-Efficient Retrofit Measures of Heat Exchanger Networks. <i>Energies</i> , 2020, 13, 1472.	1.6	11
30	Efficient heat integration of industrial CO ₂ capture and district heating supply. <i>International Journal of Greenhouse Gas Control</i> , 2022, 118, 103689.	2.3	10
31	Assessing the value of pulp mill biomass savings in a climate change conscious economy. <i>Energy Policy</i> , 2006, 34, 2330-2343.	4.2	8
32	Potential for Negative Emissions by Carbon Capture and Storage From a Novel Electric Plasma Calcination Process for Pulp and Paper Mills. <i>Frontiers in Climate</i> , 2021, 3, .	1.3	8
33	A feasibility study of improved heat recovery and excess heat export at a Swedish chemical complex site. <i>International Journal of Energy Research</i> , 2018, 42, 1580-1593.	2.2	7
34	Life-cycle impact assessment methods for physical energy scarcity: considerations and suggestions. <i>International Journal of Life Cycle Assessment</i> , 2021, 26, 2339-2354.	2.2	7
35	The role of energy supply in abatement cost curves for CO ₂ capture from process industry – A case study of a Swedish refinery. <i>Applied Energy</i> , 2022, 319, 119273.	5.1	7
36	Operability and Technical Implementation Issues Related to Heat Integration Measures – Interview Study at an Oil Refinery in Sweden. <i>Energies</i> , 2020, 13, 3478.	1.6	6

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37	Studying the Role of System Aggregation in Energy Targeting: A Case Study of a Swedish Oil Refinery. <i>Energies</i> , 2020, 13, 958.	1.6	5
38	Double Yields and Negative Emissions? Resource, Climate and Cost Efficiencies in Biofuels With Carbon Capture, Storage and Utilization. <i>Frontiers in Energy Research</i> , 0, 10, .	1.2	5
39	Costs vs. Flexibility of Process Heat Recovery Solutions Considering Short-Term Process Variability and Uncertain Long-Term Development. <i>Frontiers in Chemical Engineering</i> , 2021, 3, .	1.3	4
40	A computational tool for guiding retrofit projects of industrial heat recovery systems subject to variation in operating conditions. <i>Applied Thermal Engineering</i> , 2021, 182, 115648.	3.0	3
41	Assessing the value of a diversified by-product portfolio to allow for increased production flexibility in pulp mills. <i>Nordic Pulp and Paper Research Journal</i> , 2020, 35, 533-558.	0.3	3
42	Electricity Generation from Low and Medium Temperature Industrial Excess Heat in the Kraft Pulp and Paper Industry. <i>Energies</i> , 2021, 14, 8499.	1.6	3
43	Forest residues gasification integrated with electrolysis for production of SNG “ modelling and assessment. <i>Computer Aided Chemical Engineering</i> , 2018, 44, 109-114.	0.3	2