

Rajab Khalilpour

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

3,349
citations

218662

26
h-index

149686

56
g-index

86
all docs

86
docs citations

86
times ranked

3564
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen as an energy vector. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 120, 109620.	16.4	536
2	Membrane-based carbon capture from flue gas: a review. <i>Journal of Cleaner Production</i> , 2015, 103, 286-300.	9.3	288
3	Trends in CO ₂ conversion and utilization: A review from process systems perspective. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 5771-5794.	6.7	286
4	Short-term residential load forecasting: Impact of calendar effects and forecast granularity. <i>Applied Energy</i> , 2017, 205, 654-669.	10.1	238
5	Thermodynamic and economic optimization of LNG mixed refrigerant processes. <i>Energy Conversion and Management</i> , 2014, 88, 947-961.	9.2	122
6	A model-based analysis of CO ₂ utilization in methanol synthesis plant. <i>Journal of CO₂ Utilization</i> , 2015, 10, 12-22.	6.8	121
7	Leaving the grid: An ambition or a real choice?. <i>Energy Policy</i> , 2015, 82, 207-221.	8.8	115
8	Planning and operation scheduling of PV-battery systems: A novel methodology. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 53, 194-208.	16.4	109
9	Solar-assisted Post-combustion Carbon Capture feasibility study. <i>Applied Energy</i> , 2012, 92, 668-676.	10.1	100
10	Optimisation of LNG mixed-refrigerant processes considering operation and design objectives. <i>Computers and Chemical Engineering</i> , 2012, 41, 123-133.	3.8	98
11	Evaluation of utilization alternatives for stranded natural gas. <i>Energy</i> , 2012, 40, 317-328.	8.8	90
12	HEN optimization for efficient retrofitting of coal-fired power plants with post-combustion carbon capture. <i>International Journal of Greenhouse Gas Control</i> , 2011, 5, 189-199.	4.6	87
13	Biogas as an energy vector. <i>Biomass and Bioenergy</i> , 2021, 144, 105935.	5.7	72
14	Technoeconomic parametric analysis of PV-battery systems. <i>Renewable Energy</i> , 2016, 97, 757-768.	8.9	66
15	Co-production of electricity and hydrogen from wind: A comprehensive scenario-based techno-economic analysis. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 18242-18256.	7.1	62
16	Polygeneration with biomass-integrated gasification combined cycle process: Review and prospective. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 92, 219-234.	16.4	57
17	Integration of solar energy in coal-fired power plants retrofitted with carbon capture: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 38, 1029-1044.	16.4	55
18	CO ₂ utilization through integration of post-combustion carbon capture process with Fischer-Tropsch gas-to-liquid (GTL) processes. <i>Journal of CO₂ Utilization</i> , 2017, 18, 98-106.	6.8	55

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19	Potential for solar-assisted post-combustion carbon capture in Australia. <i>Applied Energy</i> , 2013, 111, 175-185.	10.1	54
20	Multi-criteria location identification for wind/solar based hydrogen generation: The case of capital cities of a developing country. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 33151-33168.	7.1	53
21	Evolution of carbon capture and storage research: Trends of international collaborations and knowledge maps. <i>International Journal of Greenhouse Gas Control</i> , 2015, 37, 362-376.	4.6	49
22	Analysis of hollow fibre membrane systems for multicomponent gas separation. <i>Chemical Engineering Research and Design</i> , 2013, 91, 332-347.	5.6	45
23	Operation optimization of propane precooled mixed refrigerant processes. <i>Journal of Natural Gas Science and Engineering</i> , 2013, 15, 93-105.	4.4	41
24	Flexible dynamic operation of solar-integrated power plant with solvent based post-combustion carbon capture (PCC) process. <i>Energy Conversion and Management</i> , 2015, 97, 7-19.	9.2	40
25	Selection of Liquefied Natural Gas (LNG) Contracts for Minimizing Procurement Cost. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 10298-10312.	3.7	33
26	Modeling and parametric analysis of hollow fiber membrane system for carbon capture from multicomponent flue gas. <i>AIChE Journal</i> , 2012, 58, 1550-1561.	3.6	33
27	Renewable Hybridization of Oil and Gas Supply Chains. , 2019, , 331-372.		33
28	Single and Polystorage Technologies for Renewable-Based Hybrid Energy Systems. , 2019, , 77-131.		28
29	Energy-Water Nexus: Renewable-Integrated Hybridized Desalination Systems. , 2019, , 409-458.		28
30	Multi-level investment planning and scheduling under electricity and carbon market dynamics: Retrofit of a power plant with PCC (post-combustion carbon capture) processes. <i>Energy</i> , 2014, 64, 172-186.	8.8	27
31	A generic framework for distributed multi-generation and multi-storage energy systems. <i>Energy</i> , 2016, 114, 798-813.	8.8	27
32	A novel process for direct solvent regeneration via solar thermal energy for carbon capture. <i>Renewable Energy</i> , 2017, 104, 60-75.	8.9	23
33	Development and verification of a model to describe an immobilized glucose isomerase packed bed bioreactor. <i>Biochemical Engineering Journal</i> , 2008, 40, 328-336.	3.6	20
34	Investment portfolios under uncertainty for utilizing natural gas resources. <i>Computers and Chemical Engineering</i> , 2011, 35, 1827-1837.	3.8	19
35	Parametric optimization with uncertainty on the left hand side of linear programs. <i>Computers and Chemical Engineering</i> , 2014, 60, 31-40.	3.8	19
36	Flexible Operation Scheduling of a Power Plant Integrated with PCC Processes under Market Dynamics. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 8132-8146.	3.7	19

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37	Membrane Systems Engineering for Post-combustion Carbon Capture. Energy Procedia, 2013, 37, 976-985.	1.8	15
38	Maximizing the profitability of integrated Fischer-Tropsch GTL process with ammonia and urea synthesis using response surface methodology. Journal of CO2 Utilization, 2020, 35, 14-27.	6.8	15
39	Retrospective and prospective of the hydrogen supply chain: A longitudinal techno-historical analysis. International Journal of Hydrogen Energy, 2020, 45, 34294-34315.	7.1	15
40	Modeling and analysis of process configurations for solvent-based post-combustion carbon capture. Asia-Pacific Journal of Chemical Engineering, 2015, 10, 764-780.	1.5	13
41	A multi-objective extended input-output model for a regional economy. Sustainable Production and Consumption, 2019, 20, 15-28.	11.0	13
42	Optimal Operation of Solvent-based Post-combustion Carbon Capture Processes with Reduced Models. Energy Procedia, 2013, 37, 1500-1508.	1.8	11
43	CO2 Conversion and Utilization Pathways. , 2019, , 213-245.		11
44	How sustainable is CO ₂ conversion to ethanol? A life cycle assessment of a new electrocatalytic carbon utilisation process. Sustainable Energy and Fuels, 2021, 5, 5866-5880.	4.9	9
45	Optimal synthesis and design of solvent-based PCC process using a rate-based model. Separation and Purification Technology, 2014, 132, 149-167.	7.9	8
46	A logic-based geometrical model for the next day operation of PV-battery systems. Journal of Energy Storage, 2016, 7, 181-194.	8.1	8
47	Does battery storage lead to lower GHG emissions?. Electricity Journal, 2017, 30, 1-7.	2.5	7
48	Impact of occupant autonomy on satisfaction and building energy efficiency. Energy and Built Environment, 2023, 4, 377-385.	5.9	7
49	Evaluation of LNG, CNG, GTL and NGH for Monetization of Stranded Associated Gas with the Incentive of Carbon Credit. , 2009, , .		6
50	Community Energy Networks With Storage. Green Energy and Technology, 2016, , .	0.6	5
51	Network capacity charge for sustainability and energy equity: A model-based analysis. Applied Energy, 2020, 266, 114847.	10.1	5
52	Network of networks: A bibliometric analysis. Physica D: Nonlinear Phenomena, 2021, 421, 132889.	2.8	5
53	Efficient configuration/design of solvent-based post-combustion carbon capture. Computer Aided Chemical Engineering, 2012, , 815-819.	0.5	5
54	Stranded Renewable Energies, Beyond Local Security, Toward Export: A Concept Note on the Design of Future Energy and Chemical Supply Chains. , 2019, , 157-173.		4

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55	Polyfeed and Polyproduct Integrated Gasification Systems. , 2019, , 175-212.		4
56	A Practical Load Disaggregation Approach for Monitoring Industrial Users Demand with Limited Data Availability. Energies, 2021, 14, 4880.	3.1	4
57	Contract selection under uncertainty. Computer Aided Chemical Engineering, 2012, 31, 1487-1491.	0.5	3
58	Produced Water Management: An Example of a Regulatory Gap. , 2014, , .		3
59	Interconnected Electricity and Natural Gas Supply Chains: The Roles of Power to Gas and Gas to Power. , 2019, , 133-155.		3
60	The Transition From X% to 100% Renewable Future: Perspective and Prospective. , 2019, , 513-549.		3
61	Generic techno-economic optimization methodology for concurrent design and operation of solvent-based PCC processes. International Journal of Greenhouse Gas Control, 2020, 99, 103079.	4.6	3
62	Resilience Analysis of Australian Electricity and Gas Transmission Networks. Sustainability, 2022, 14, 3273.	3.2	3
63	A highly carbon-efficient and techno-economically optimized process for the renewable-assisted synthesis of gas to liquid fuels, ammonia, and urea products. International Journal of Energy Research, 2021, 45, 16362-16382.	4.5	2
64	A Comparative study on state of charge estimation techniques for Lithium-ion Batteries. , 2021, , .		2
65	Evaluation of LNG, CNG, GTL, and NGHs for Monetization of Stranded Gas. JPT, Journal of Petroleum Technology, 2010, 62, 61-62.	0.2	1
66	Grid Revolution with Distributed Generation and Storage. Green Energy and Technology, 2016, , 19-40.	0.6	1
67	Integrated Power-to-Gas and Gas-to-Power with Air and Natural-Gas Storage. Industrial & Engineering Chemistry Research, 2019, 58, 1322-1340.	3.7	1
68	The Nexus Era: Toward an Integrated, Interconnected, Decentralized, and Prosumer Future. , 2019, , 27-52.		1
69	Energy Hubs and Polygeneration Systems: A Social Network Analysis. , 2019, , 53-75.		1
70	PV-Battery Nanogrid Systems. Green Energy and Technology, 2016, , 61-82.	0.6	1
71	Cooperative Community Energy Networks. Green Energy and Technology, 2016, , 151-182.	0.6	1
72	A decision support tool for multi-attribute evaluation of demand-side commercial battery storage products. Sustainable Energy Technologies and Assessments, 2022, 50, 101723.	2.7	1

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73	Effect of feed natural gas conditions on the performance of mixed refrigerant LNG process. Computer Aided Chemical Engineering, 2015, 37, 2309-2314.	0.5	0
74	An Efficient Method Based on Adaptive Time Resolution for the Unit Commitment Problem. , 2018, , .		0
75	Design and Operational Management of Energy Hubs: A DS4S (Screening, Selection, Sizing, and) Tj ETQq1 1 0.784314 rgBT /Overlock		0
76	Moving Forward to the Past, With Adaptation and Flexibility: The Special Role of Resource Storage. , 2019, , 1-25.		0
77	Integration of solar energy with post-combustion carbon capture. , 2012, , .		0
78	The "Death Spiral" for the Utility Industry: A Myth or Reality?. Green Energy and Technology, 2016, , 99-103.	0.6	0
79	Introduction: Features of a Smart Energy Network. Green Energy and Technology, 2016, , 1-18.	0.6	0
80	Noncooperative Community Energy Networks. Green Energy and Technology, 2016, , 131-149.	0.6	0
81	A Generic Framework for DGS Nanogrids. Green Energy and Technology, 2016, , 41-59.	0.6	0