Jui-Yuan Lee

List of Publications by Year
in descending order

76 papers	1,844 citations	279487 23 h-index	276539 41 g-index
78 all docs	78 docs citations	78 times ranked	1672 citing authors

#	Article	IF	Citations
1	Fuzzy optimization model for enhanced weathering networks using industrial waste. Clean Technologies and Environmental Policy, 2022, 24, 21-37.	2.1	11
2	Fuzzy optimization design of multicomponent refinery hydrogen network. Chinese Journal of Chemical Engineering, 2022, 48, 125-139.	1.7	1
3	Optimal integration of organic Rankine cycles into process heat exchanger networks: A simultaneous approach. Energy Conversion and Management, 2022, 260, 115604.	4.4	6
4	Special Issue on "Multi-Period Optimization of Sustainable Energy Systems". Processes, 2022, 10, 1386.	1.3	0
5	Optimal Design of a Hydrolysis Sugar Membrane Purification System Using a Superstructure-Based Approach. Processes, 2021, 9, 168.	1.3	1
6	Planning of non-conventional gas field development with parametric uncertainties. Computer Aided Chemical Engineering, 2021, , 1865-1870.	0.3	1
7	Process Modeling and Analysis of an Industrial Fresh Water Desalination System. Industrial & Engineering Chemistry Research, 2021, 60, 11202-11215.	1.8	3
8	9th Asian Symposium on Process Systems Engineering. Process Integration and Optimization for Sustainability, 2021, 5, 693-694.	1.4	0
9	Single and multi-objective optimisation for the retrofit of process water networks. Journal of the Taiwan Institute of Chemical Engineers, 2020, 117, 39-47.	2.7	10
10	Increasing the reliability of bioenergy parks utilizing agricultural waste feedstock under demand uncertainty. Journal of Cleaner Production, 2020, 269, 122385.	4.6	12
11	Optimal Design of a UF-RO Treatment System for Shale Gas Fracturing Flowback Wastewater. Industrial & Engineering Chemistry Research, 2020, 59, 5905-5920.	1.8	6
12	Data set and model code on the optimal operating state of a negative emission polygeneration system. Data in Brief, 2020, 29, 105140.	0.5	1
13	Hydrothermal carbonization of maize straw for hydrochar production and its injection for blast furnace. Applied Energy, 2020, 266, 114818.	5.1	86
14	Synthesis of refinery hydrogen network integrated with hydrogen turbines for power recovery. Energy, 2020, 201, 117623.	4.5	16
15	A sizing-validation approach to hybrid power system design and planning. Chemical Engineering Research and Design, 2020, 141, 178-189.	2.7	7
16	Optimal synthesis of negative emissions polygeneration systems with desalination. Energy, 2019, 187, 115953.	4.5	12
17	Multi-Footprint Constrained Energy Sector Planning. Energies, 2019, 12, 2329.	1.6	6
18	Multi-objective optimisation of hybrid power systems under uncertainties. Energy, 2019, 175, 1271-1282.	4.5	26

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19	Design and Scheduling of Desalination System for Shale Gas Flowback Wastewater Treatment. Computer Aided Chemical Engineering, 2019, 47, 53-58.	0.3	1
20	Optimization of Refinery Hydrogen Network with Parametric Uncertainties. Computer Aided Chemical Engineering, 2019, , 77-82.	0.3	3
21	Study on CO_2 Gasification Reactivity and Structure Characteristics of Carbonaceous Materials from the Corex Furnace. Energy & Fuels, 2018, 32, 6155-6166.	2.5	12
22	Improved Problem Table for Targeting Hydrogen Network with Single Intermediate Header. Process Integration and Optimization for Sustainability, 2018, 2, 117-129.	1.4	1
23	Optimal Sizing and Design of Hybrid Power Systems. ACS Sustainable Chemistry and Engineering, 2018, 6, 2482-2490.	3.2	13
24	Waste cold energy recovery from liquefied natural gas (LNG) regasification including pressure and thermal energy. Energy, 2018, 152, 770-787.	4.5	56
25	A review of optimization and decision-making models for the planning of CO_2 capture, utilization and storage (CCUS) systems. Sustainable Production and Consumption, 2018, 13, 1-15.	5.7	222
26	Recent Advances in Process Integration and Its Applications. Process Integration and Optimization for Sustainability, 2018, 2, 141-142.	1.4	0
27	A Mathematical Technique for Multi-period Planning of Unconventional Gas Field Development. Computer Aided Chemical Engineering, 2018, , 1243-1248.	0.3	2
28	Combustion behaviors and kinetics analysis of coal, biomass and plastic. Thermochimica Acta, 2018, 669, 140-148.	1.2	32
29	An algebraic targeting approach for optimal planning of gas sweetening problem in non-conventional gas field development. Chemical Engineering Research and Design, 2018, 120, 248-255.	2.7	1
30	Co-combustion characteristics and kinetic study of anthracite coal and palm kernel shell char. Applied Thermal Engineering, 2018, 143, 736-745.	3.0	49
31	Synthesis of Refinery Hydrogen Networks with Parametric Uncertainties. Computer Aided Chemical Engineering, 2018, 44, 1177-1182.	0.3	2
32	A proposal for charting the undergraduate process control course for the 21st century. Journal of the Taiwan Institute of Chemical Engineers, 2017, 73, 154-165.	2.7	1
33	Simultaneous Targeting and Scheduling for Batch Water Networks. Industrial & Engineering Chemistry Research, 2017, 56, 1559-1569.	1.8	21
34	A multi-period optimisation model for planning carbon sequestration retrofits in the electricity sector. Applied Energy, 2017, 198, 12-20.	5.1	21
35	A P-graph model for multi-period optimization of sustainable energy systems. Journal of Cleaner Production, 2017, 161, 1338-1351.	4.6	31
36	Regional energy planning using mathematical optimisation. , 2017, , .		0

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37	Multi-objective optimization for resource network synthesis in eco-industrial parks using an integrated analytic hierarchy process. Journal of Cleaner Production, 2017, 143, 1268-1283.	4.6	57
38	A Mathematical Technique for Optimal Design of Hybrid Power Systems Considering Demand-side Management. Computer Aided Chemical Engineering, 2017, 40, 2431-2436.	0.3	0
39	Application of a simultaneous approach for process scheduling and water minimisation in batch plants. Computer Aided Chemical Engineering, 2016, , 1953-1958.	0.3	1
40	Optimal CO2 allocation and scheduling in enhanced oil recovery (EOR) operations. Applied Energy, 2016, 184, 337-345.	5.1	81
41	Planning and scheduling of CO 2 capture, utilization and storage (CCUS) operations as a strip packing problem. Chemical Engineering Research and Design, 2016, 104, 358-372.	2.7	44
42	An improved model for Heat Integration of intermittent process streams in multipurpose batch plants. Applied Thermal Engineering, 2016, 105, 822-838.	3.0	10
43	Process integration approaches to optimal planning of unconventional gas field development. Chemical Engineering Science, 2016, 150, 85-93.	1.9	11
44	Application of a generic superstructure-based formulation to the design of wind-pumped-storage hybrid systems on remote islands. Energy Conversion and Management, 2016, 111, 339-351.	4.4	42
45	Incorporating Timesharing Scheme in Ecoindustrial Multiperiod Chilled and Cooling Water Network Design. Industrial & Engineering Chemistry Research, 2016, 55, 197-209.	1.8	13
46	Heat integration of intermittently available continuous streams in multipurpose batch plants. Computers and Chemical Engineering, 2015, 74, 100-114.	2.0	15
47	Synthesis of transcritical ORC-integrated heat exchanger networks for waste heat recovery. Computer Aided Chemical Engineering, 2015, 37, 1073-1078.	0.3	4
48	Introduction to Batch Chemical Processes. , 2015, , 3-10.		1
49	Effective Technique for Scheduling in Multipurpose Batch Plants. , 2015, , 11-48.		0
50	CO2 Allocation for Scheduling Enhanced Oil Recovery (EOR) Operations with Geological Sequestration Using Discrete-time Optimization. Energy Procedia, 2014, 61, 595-598.	1.8	7
51	Transshipment model-based MILP (mixed-integer linear programming) formulation for targeting and design of hybrid power systems. Energy, 2014, 65, 550-559.	4.5	24
52	A unified model for the deployment of carbon capture and storage. Applied Energy, 2014, 121, 140-148.	5.1	37
53	Transshipment model-based linear programming formulation for targeting hybrid power systems with power loss considerations. Energy, 2014, 75, 24-30.	4.5	12
54	Synthesis of hydrogen network with hydrogen header of intermediate purity. International Journal of Hydrogen Energy, 2014, 39, 13049-13062.	3.8	41

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55	Targeting and design of chilled water network. Applied Energy, 2014, 134, 589-599.	5.1	18
56	Heat-Exchanger Network Synthesis Involving Organic Rankine Cycle for Waste Heat Recovery. Industrial & Engineering Chemistry Research, 2014, 53, 16924-16936.	1.8	46
57	A mathematical technique for hybrid power system design with energy loss considerations. Energy Conversion and Management, 2014, 82, 301-307.	4.4	34
58	A two-stage approach for the synthesis of inter-plant water networks involving continuous and batch units. Chemical Engineering Research and Design, 2014, 92, 941-953.	2.7	24
59	Synthesis and design of chilled water networks using mathematical optimization. Applied Thermal Engineering, 2013, 58, 638-649.	3.0	21
60	Retrofit of steam power plants in a petroleum refinery. Applied Thermal Engineering, 2013, 61, 7-16.	3.0	24
61	A Mathematical Model for Water Network Synthesis Involving Mixed Batch and Continuous Units. Industrial & Engineering Chemistry Research, 2013, 52, 7047-7055.	1.8	6
62	Targeting and design for batch regeneration and total networks. Clean Technologies and Environmental Policy, 2013, 15, 579-590.	2.1	7
63	Comments on â€œContinuous-Time Optimization Model for Source-Sink Matching in Carbon Capture and Storage Systemsâ€. Industrial & Engineering Chemistry Research, 2012, 51, 11590-11591.	1.8	277
64	Synthesis of water networks for processes with mixed batch and continuous units. Computer Aided Chemical Engineering, 2012, 31, 1437-1441.	0.3	0
65	Resource-Task Network Approach to Simultaneous Scheduling and Water Minimization of Batch Plants. Industrial & Engineering Chemistry Research, 2011, 50, 3660-3674.	1.8	15
66	Synthesis of property-based resource conservation network in palm oil mills with time-varying process disturbance. Clean Technologies and Environmental Policy, 2011, 13, 625-632.	2.1	5
67	Property integration for resource conservation network synthesis in palm oil mills. Chemical Engineering Journal, 2011, 169, 207-215.	6.6	7
68	A unified model of property integration for batch and continuous processes. AICHE Journal, 2010, 56, 1845-1858.	1.8	36
69	On the use of graphical analysis for the design of batch water networks. Clean Technologies and Environmental Policy, 2010, 12, 117-123.	2.1	11
70	Synthesis of resource conservation network with sinkâ€"source interaction. Clean Technologies and Environmental Policy, 2010, 12, 613-625.	2.1	8
71	Synthesis of heat-integrated water-using networks in process plants. Journal of the Taiwan Institute of Chemical Engineers, 2010, 41, 512-521.	2.7	20
72	Design of inter-plant water network with central and decentralized water mains. Computers and Chemical Engineering, 2010, 34, 1522-1531.	2.0	45

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73	Water Minimization Techniques for Batch Processes. Industrial & Engineering Chemistry Research, 2010, 49, 8877-8893.	1.8	70
74	Synthesis of water-using network with central reusable storage in batch processes. Computers and Chemical Engineering, 2009, 33, 267-276.	2.0	22
75	A graphical technique for the design of water-using networks in batch processes. Chemical Engineering Science, 2008, 63, 3740-3754.	1.9	44
76	Continuous-Time Formulation for the Synthesis of Water-Using Networks in Batch Plants. Industrial & Engineering Chemistry Research, 2008, 47, 7818-7832.	1.8	26