

Jui-Yuan Lee

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/293832/publications.pdf>

Version: 2024-02-01

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	Comments on "Continuous-Time Optimization Model for Source-Sink Matching in Carbon Capture and Storage Systems". Industrial & Engineering Chemistry Research, 2012, 51, 11590-11591.	1.8	277
2	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
3	Hydrothermal carbonization of maize straw for hydrochar production and its injection for blast furnace. Applied Energy, 2020, 266, 114818.	5.1	86
4	Optimal CO ₂ allocation and scheduling in enhanced oil recovery (EOR) operations. Applied Energy, 2016, 184, 337-345.	5.1	81
5	Water Minimization Techniques for Batch Processes. Industrial & Engineering Chemistry Research, 2010, 49, 8877-8893.	1.8	70
6	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
7	Waste cold energy recovery from liquefied natural gas (LNG) regasification including pressure and thermal energy. Energy, 2018, 152, 770-787.	4.5	56
8	Co-combustion characteristics and kinetic study of anthracite coal and palm kernel shell char. Applied Thermal Engineering, 2018, 143, 736-745.	3.0	49
9	Heat-Exchanger Network Synthesis Involving Organic Rankine Cycle for Waste Heat Recovery. Industrial & Engineering Chemistry Research, 2014, 53, 16924-16936.	1.8	46
10	Design of inter-plant water network with central and decentralized water mains. Computers and Chemical Engineering, 2010, 34, 1522-1531.	2.0	45
11	A graphical technique for the design of water-using networks in batch processes. Chemical Engineering Science, 2008, 63, 3740-3754.	1.9	44
12	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
13	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
14	Synthesis of hydrogen network with hydrogen header of intermediate purity. International Journal of Hydrogen Energy, 2014, 39, 13049-13062.	3.8	41
15	A unified model for the deployment of carbon capture and storage. Applied Energy, 2014, 121, 140-148.	5.1	37
16	A unified model of property integration for batch and continuous processes. AIChE Journal, 2010, 56, 1845-1858.	1.8	36
17	A mathematical technique for hybrid power system design with energy loss considerations. Energy Conversion and Management, 2014, 82, 301-307.	4.4	34
18	Combustion behaviors and kinetics analysis of coal, biomass and plastic. Thermochemica Acta, 2018, 669, 140-148.	1.2	32

#	ARTICLE	IF	CITATIONS
19	A P-graph model for multi-period optimization of sustainable energy systems. <i>Journal of Cleaner Production</i> , 2017, 161, 1338-1351.	4.6	31
20	Continuous-Time Formulation for the Synthesis of Water-Using Networks in Batch Plants. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 7818-7832.	1.8	26
21	Multi-objective optimisation of hybrid power systems under uncertainties. <i>Energy</i> , 2019, 175, 1271-1282.	4.5	26
22	Retrofit of steam power plants in a petroleum refinery. <i>Applied Thermal Engineering</i> , 2013, 61, 7-16.	3.0	24
23	Transshipment model-based MILP (mixed-integer linear programming) formulation for targeting and design of hybrid power systems. <i>Energy</i> , 2014, 65, 550-559.	4.5	24
24	A two-stage approach for the synthesis of inter-plant water networks involving continuous and batch units. <i>Chemical Engineering Research and Design</i> , 2014, 92, 941-953.	2.7	24
25	Synthesis of water-using network with central reusable storage in batch processes. <i>Computers and Chemical Engineering</i> , 2009, 33, 267-276.	2.0	22
26	Synthesis and design of chilled water networks using mathematical optimization. <i>Applied Thermal Engineering</i> , 2013, 58, 638-649.	3.0	21
27	Simultaneous Targeting and Scheduling for Batch Water Networks. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 1559-1569.	1.8	21
28	A multi-period optimisation model for planning carbon sequestration retrofits in the electricity sector. <i>Applied Energy</i> , 2017, 198, 12-20.	5.1	21
29	Synthesis of heat-integrated water-using networks in process plants. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2010, 41, 512-521.	2.7	20
30	Targeting and design of chilled water network. <i>Applied Energy</i> , 2014, 134, 589-599.	5.1	18
31	Synthesis of refinery hydrogen network integrated with hydrogen turbines for power recovery. <i>Energy</i> , 2020, 201, 117623.	4.5	16
32	Resource-Task Network Approach to Simultaneous Scheduling and Water Minimization of Batch Plants. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 3660-3674.	1.8	15
33	Heat integration of intermittently available continuous streams in multipurpose batch plants. <i>Computers and Chemical Engineering</i> , 2015, 74, 100-114.	2.0	15
34	Incorporating Timesharing Scheme in Ecoindustrial Multiperiod Chilled and Cooling Water Network Design. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 197-209.	1.8	13
35	Optimal Sizing and Design of Hybrid Power Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2482-2490.	3.2	13
36	Transshipment model-based linear programming formulation for targeting hybrid power systems with power loss considerations. <i>Energy</i> , 2014, 75, 24-30.	4.5	12

#	ARTICLE	IF	CITATIONS
37	Study on CO ₂ Gasification Reactivity and Structure Characteristics of Carbonaceous Materials from the Corex Furnace. <i>Energy & Fuels</i> , 2018, 32, 6155-6166.	2.5	12
38	Optimal synthesis of negative emissions polygeneration systems with desalination. <i>Energy</i> , 2019, 187, 115953.	4.5	12
39	Increasing the reliability of bioenergy parks utilizing agricultural waste feedstock under demand uncertainty. <i>Journal of Cleaner Production</i> , 2020, 269, 122385.	4.6	12
40	On the use of graphical analysis for the design of batch water networks. <i>Clean Technologies and Environmental Policy</i> , 2010, 12, 117-123.	2.1	11
41	Process integration approaches to optimal planning of unconventional gas field development. <i>Chemical Engineering Science</i> , 2016, 150, 85-93.	1.9	11
42	Fuzzy optimization model for enhanced weathering networks using industrial waste. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 21-37.	2.1	11
43	An improved model for Heat Integration of intermittent process streams in multipurpose batch plants. <i>Applied Thermal Engineering</i> , 2016, 105, 822-838.	3.0	10
44	Single and multi-objective optimisation for the retrofit of process water networks. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 117, 39-47.	2.7	10
45	Synthesis of resource conservation network with sink-source interaction. <i>Clean Technologies and Environmental Policy</i> , 2010, 12, 613-625.	2.1	8
46	Property integration for resource conservation network synthesis in palm oil mills. <i>Chemical Engineering Journal</i> , 2011, 169, 207-215.	6.6	7
47	Targeting and design for batch regeneration and total networks. <i>Clean Technologies and Environmental Policy</i> , 2013, 15, 579-590.	2.1	7
48	CO ₂ Allocation for Scheduling Enhanced Oil Recovery (EOR) Operations with Geological Sequestration Using Discrete-time Optimization. <i>Energy Procedia</i> , 2014, 61, 595-598.	1.8	7
49	A sizing-validation approach to hybrid power system design and planning. <i>Chemical Engineering Research and Design</i> , 2020, 141, 178-189.	2.7	7
50	A Mathematical Model for Water Network Synthesis Involving Mixed Batch and Continuous Units. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 7047-7055.	1.8	6
51	Multi-Footprint Constrained Energy Sector Planning. <i>Energies</i> , 2019, 12, 2329.	1.6	6
52	Optimal Design of a UF-RO Treatment System for Shale Gas Fracturing Flowback Wastewater. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 5905-5920.	1.8	6
53	Optimal integration of organic Rankine cycles into process heat exchanger networks: A simultaneous approach. <i>Energy Conversion and Management</i> , 2022, 260, 115604.	4.4	6
54	Synthesis of property-based resource conservation network in palm oil mills with time-varying process disturbance. <i>Clean Technologies and Environmental Policy</i> , 2011, 13, 625-632.	2.1	5

#	ARTICLE	IF	CITATIONS
55	Synthesis of transcritical ORC-integrated heat exchanger networks for waste heat recovery. Computer Aided Chemical Engineering, 2015, 37, 1073-1078.	0.3	4
56	Optimization of Refinery Hydrogen Network with Parametric Uncertainties. Computer Aided Chemical Engineering, 2019, , 77-82.	0.3	3
57	Process Modeling and Analysis of an Industrial Fresh Water Desalination System. Industrial & Engineering Chemistry Research, 2021, 60, 11202-11215.	1.8	3
58	A Mathematical Technique for Multi-period Planning of Unconventional Gas Field Development. Computer Aided Chemical Engineering, 2018, , 1243-1248.	0.3	2
59	Synthesis of Refinery Hydrogen Networks with Parametric Uncertainties. Computer Aided Chemical Engineering, 2018, 44, 1177-1182.	0.3	2
60	Application of a simultaneous approach for process scheduling and water minimisation in batch plants. Computer Aided Chemical Engineering, 2016, , 1953-1958.	0.3	1
61	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
62	Improved Problem Table for Targeting Hydrogen Network with Single Intermediate Header. Process Integration and Optimization for Sustainability, 2018, 2, 117-129.	1.4	1
63	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
64	Design and Scheduling of Desalination System for Shale Gas Flowback Wastewater Treatment. Computer Aided Chemical Engineering, 2019, 47, 53-58.	0.3	1
65	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
66	Optimal Design of a Hydrolysis Sugar Membrane Purification System Using a Superstructure-Based Approach. Processes, 2021, 9, 168.	1.3	1
67	Planning of non-conventional gas field development with parametric uncertainties. Computer Aided Chemical Engineering, 2021, , 1865-1870.	0.3	1
68	Fuzzy optimization design of multicomponent refinery hydrogen network. Chinese Journal of Chemical Engineering, 2022, 48, 125-139.	1.7	1
69	Introduction to Batch Chemical Processes. , 2015, , 3-10.		1
70	Regional energy planning using mathematical optimisation. , 2017, , .		0
71	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
72	Recent Advances in Process Integration and Its Applications. Process Integration and Optimization for Sustainability, 2018, 2, 141-142.	1.4	0

#	ARTICLE	IF	CITATIONS
73	9th Asian Symposium on Process Systems Engineering. Process Integration and Optimization for Sustainability, 2021, 5, 693-694.	1.4	0
74	Synthesis of water networks for processes with mixed batch and continuous units. Computer Aided Chemical Engineering, 2012, 31, 1437-1441.	0.3	0
75	Effective Technique for Scheduling in Multipurpose Batch Plants. , 2015, , 11-48.		0
76	Special Issue on "Multi-Period Optimization of Sustainable Energy Systems" Processes, 2022, 10, 1386.	1.3	0