Raymond R Tan

List of Publications by Year in descending order

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ΡΑΥΜΟΝΟ Ρ ΤΑΝ

#	Article	IF	CITATIONS
1	Minimising the present and future plastic waste, energy and environmental footprints related to COVID-19. Renewable and Sustainable Energy Reviews, 2020, 127, 109883.	8.2	634
2	Sustainable consumption and production for Asia: sustainability through green design and practice. Journal of Cleaner Production, 2013, 40, 1-5.	4.6	345
3	Circular economy meets industry 4.0: Can big data drive industrial symbiosis?. Resources, Conservation and Recycling, 2018, 131, 146-147.	5.3	324
4	Continuous-Time Optimization Model for Source–Sink Matching in Carbon Capture and Storage Systems. Industrial & Engineering Chemistry Research, 2012, 51, 10015-10020.	1.8	318
5	Pinch analysis approach to carbon-constrained energy sector planning. Energy, 2007, 32, 1422-1429.	4.5	291
6	Short-term wind power forecasting based on support vector machine with improved dragonfly algorithm. Journal of Cleaner Production, 2020, 242, 118447.	4.6	264
7	A review of optimization and decision-making models for the planning of <mmi:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml95" display="inline" overflow="scroll" altimg="si95.gif"><mml:msub><mml:mrow><mml:mi mathvariant="normal">CO</mml:mi </mml:mrow><mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:mrow></mml:msub>22<td>5.7 sub><td>222 l:math>capti</td></td></mmi:math 	5 .7 sub> <td>222 l:math>capti</td>	222 l:math>capti
8	Billevel fuzzy optimization approach for water exchange in eco-industrial parks. Chemical Engineering Research and Design, 2010, 88, 31-40.	2.7	153
9	Synthesis of Direct and Indirect Interplant Water Network. Industrial & Engineering Chemistry Research, 2008, 47, 9485-9496.	1.8	136
10	Flexible Carbon Capture and Utilization technologies in future energy systems and the utilization pathways of captured CO2. Renewable and Sustainable Energy Reviews, 2019, 114, 109338.	8.2	136
11	Game theory approach to the analysis of inter-plant water integration in an eco-industrial park. Journal of Cleaner Production, 2009, 17, 1611-1619.	4.6	134
12	Sustainable supply chain management towards disruption and organizational ambidexterity: A data driven analysis. Sustainable Production and Consumption, 2021, 26, 373-410.	5.7	128
13	Extended pinch targeting techniques for carbon-constrained energy sector planning. Applied Energy, 2009, 86, 60-67.	5.1	123
14	Automated Targeting Technique for Single-Impurity Resource Conservation Networks. Part 2: Single-Pass and Partitioning Waste-Interception Systems. Industrial & Engineering Chemistry Research, 2009, 48, 7647-7661.	1.8	123
15	Carbon and footprint-constrained energy planning using cascade analysis technique. Energy, 2008, 33, 1480-1488.	4.5	111
16	Automated Targeting Technique for Single-Impurity Resource Conservation Networks. Part 1: Direct Reuse/Recycle. Industrial & Engineering Chemistry Research, 2009, 48, 7637-7646.	1.8	110
17	Effect of process parameters on hydrothermal liquefaction of oil palm biomass for bio-oil production and its life cycle assessment. Energy Conversion and Management, 2015, 104, 180-188.	4.4	110
18	Pinch analysis approach to carbon-constrained planningfor sustainable power generation. Journal of Cleaner Production, 2009, 17, 940-944.	4.6	109

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19	Optimal energy planning models with carbon footprint constraints. Applied Energy, 2010, 87, 1903-1910.	5.1	105
20	Fuzzy input–output model for optimizing eco-industrial supply chains under water footprint constraints. Journal of Cleaner Production, 2011, 19, 187-196.	4.6	103
21	Fuzzy AHP approach to selection problems in process engineering involving quantitative and qualitative aspects. Chemical Engineering Research and Design, 2014, 92, 467-475.	2.7	102
22	An improved moth-flame optimization algorithm for support vector machine prediction of photovoltaic power generation. Journal of Cleaner Production, 2020, 253, 119966.	4.6	100
23	Circular Integration of processes, industries, and economies. Renewable and Sustainable Energy Reviews, 2019, 107, 507-515.	8.2	95
24	Automated targeting for conventional and bilateral property-based resource conservation network. Chemical Engineering Journal, 2009, 149, 87-101.	6.6	87
25	Designing eco-industrial water exchange networks using fuzzy mathematical programming. Clean Technologies and Environmental Policy, 2010, 12, 353-363.	2.1	87
26	Automated targeting technique for concentration- and property-based total resource conservation network. Computers and Chemical Engineering, 2010, 34, 825-845.	2.0	86
27	Optimal CO2 allocation and scheduling in enhanced oil recovery (EOR) operations. Applied Energy, 2016, 184, 337-345.	5.1	81
28	Comparative life cycle assessment (LCA) of bio-oil production from fast pyrolysis and hydrothermal liquefaction of oil palm empty fruit bunch (EFB). Clean Technologies and Environmental Policy, 2016, 18, 1759-1768.	2.1	78
29	A review on process integration techniques for carbon emissions and environmental footprint problems. Chemical Engineering Research and Design, 2016, 103, 291-307.	2.7	77
30	The use of graphical pinch analysis for visualizing water footprint constraints in biofuel production. Applied Energy, 2009, 86, 605-609.	5.1	76
31	Application of possibility theory in the life-cycle inventory assessment of biofuels. International Journal of Energy Research, 2002, 26, 737-745.	2.2	75
32	Synthesis of robust water reuse networks for single-component retrofit problems using symmetric fuzzy linear programming. Computers and Chemical Engineering, 2004, 28, 2547-2551.	2.0	75
33	Targeting for Total Water Network. 2. Waste Treatment Targeting and Interactions with Water System Elements. Industrial & Engineering Chemistry Research, 2007, 46, 9114-9125.	1.8	74
34	Targeting for Total Water Network. 1. Waste Stream Identification. Industrial & Engineering Chemistry Research, 2007, 46, 9107-9113.	1.8	74
35	A fuzzy multiple-objective approach to the optimization of bioenergy system footprints. Chemical Engineering Research and Design, 2009, 87, 1162-1170.	2.7	74
36	Ultimate Flowrate Targeting with Regeneration Placement. Chemical Engineering Research and Design, 2007, 85, 1253-1267.	2.7	71

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37	Industry 4.0 to Accelerate the Circular Economy: A Case Study of Electric Scooter Sharing. Sustainability, 2019, 11, 6661.	1.6	71
38	Carbon balance implications of coconut biodiesel utilization in the Philippine automotive transport sector. Biomass and Bioenergy, 2004, 26, 579-585.	2.9	70
39	A fuzzy multi-regional input–output optimization model for biomass production and trade under resource and footprint constraints. Applied Energy, 2012, 90, 154-160.	5.1	68
40	A fuzzy linear programming extension of the general matrix-based life cycle model. Journal of Cleaner Production, 2008, 16, 1358-1367.	4.6	67
41	Robust models for the synthesis of flexible palm oil-based regional bioenergy supply chain. Energy, 2013, 55, 68-73.	4.5	67
42	P-graph and Monte Carlo simulation approach to planning carbon management networks. Computers and Chemical Engineering, 2017, 106, 872-882.	2.0	62
43	Fuzzy mixed-integer linear programming model for optimizing a multi-functional bioenergy system with biochar production for negative carbon emissions. Clean Technologies and Environmental Policy, 2014, 16, 1537-1549.	2.1	61
44	Emergy-based fuzzy optimization approach for water reuse in an eco-industrial park. Resources, Conservation and Recycling, 2011, 55, 730-737.	5.3	60
45	An extended graphical targeting technique for direct reuse/recycle in concentration and property-based resource conservation networks. Clean Technologies and Environmental Policy, 2011, 13, 347-357.	2.1	58
46	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
47	An optimization-based cooperative game approach for systematic allocation of costs and benefits in interplant process integration. Chemical Engineering Research and Design, 2016, 106, 43-58.	2.7	55
48	Multi-objective target oriented robust optimization for the design of an integrated biorefinery. Journal of Cleaner Production, 2018, 170, 496-509.	4.6	55
49	Pathways and barriers to circularity in food systems. Resources, Conservation and Recycling, 2019, 143, 236-237.	5.3	55
50	Forecasting plastic waste generation and interventions for environmental hazard mitigation. Journal of Hazardous Materials, 2022, 424, 127330.	6.5	55
51	Pinch analysis for the planning of power generation sector in the United Arab Emirates: A climate-energy-water nexus study. Journal of Cleaner Production, 2018, 180, 11-19.	4.6	54
52	Pinch analysis of GHG mitigation strategies for municipal solid waste management: A case study on Qingdao City. Journal of Cleaner Production, 2018, 174, 933-944.	4.6	54
53	Carbon Constrained Energy Planning (CCEP) for Sustainable Power Generation Sector with Automated Targeting Model. Industrial & Engineering Chemistry Research, 2013, 52, 9889-9896.	1.8	53
54	Systematic Approach for Synthesis of Integrated Palm Oil Processing Complex. Part 2: Multiple Owners. Industrial & Engineering Chemistry Research, 2013, 52, 10221-10235.	1.8	53

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55	Planning of carbon capture and storage with pinch analysis techniques. Chemical Engineering Research and Design, 2013, 91, 2721-2731.	2.7	52
56	A superstructure model for the synthesis of single-contaminant water networks with partitioning regenerators. Chemical Engineering Research and Design, 2009, 87, 197-205.	2.7	51
57	Can global pharmaceutical supply chains scale up sustainably for the COVID-19 crisis?. Resources, Conservation and Recycling, 2020, 159, 104868.	5.3	51
58	Using fuzzy numbers to propagate uncertainty in matrix-based LCI. International Journal of Life Cycle Assessment, 2008, 13, 585-592.	2.2	50
59	Crisp and fuzzy integer programming models for optimal carbon sequestration retrofit in the power sector. Chemical Engineering Research and Design, 2010, 88, 1580-1588.	2.7	50
60	Robust optimization approach for synthesis of integrated biorefineries with supply and demand uncertainties. Environmental Progress and Sustainable Energy, 2013, 32, 384-389.	1.3	50
61	Unified pinch approach for targeting of carbon capture and storage (CCS) systems with multiple time periods and regions. Journal of Cleaner Production, 2014, 71, 67-74.	4.6	50
62	A graphical representation of carbon footprint reduction for chemical processes. Journal of Cleaner Production, 2010, 18, 848-856.	4.6	49
63	Flowrate Targeting Algorithm for Interplant Resource Conservation Network. Part 1: Unassisted Integration Scheme. Industrial & Engineering Chemistry Research, 2010, 49, 6439-6455.	1.8	49
64	Optimal source–sink matching in carbon capture and storage systems with time, injection rate, and capacity constraints. Environmental Progress and Sustainable Energy, 2013, 32, 411-416.	1.3	49
65	Flowrate Targeting Algorithm for Interplant Resource Conservation Network. Part 2: Assisted Integration Scheme. Industrial & Engineering Chemistry Research, 2010, 49, 6456-6468.	1.8	48
66	Optimal operational adjustment in multi-functional energy systems in response to process inoperability. Applied Energy, 2013, 102, 492-500.	5.1	47
67	Assessing the sensitivity of water networks to noisy mass loads using Monte Carlo simulation. Computers and Chemical Engineering, 2007, 31, 1355-1363.	2.0	46
68	TIME-VARYING DISASTER RECOVERY MODEL FOR INTERDEPENDENT ECONOMIC SYSTEMS USING HYBRID INPUT–OUTPUT AND EVENT TREE ANALYSIS. Economic Systems Research, 2014, 26, 60-80.	1.2	46
69	Fuzzy optimization of topologically constrained eco-industrial resource conservation networks with incomplete information. Engineering Optimization, 2011, 43, 257-279.	1.5	45
70	Fuzzy mixed integer non-linear programming model for the design of an algae-based eco-industrial park with prospective selection of support tenants under product price variability. Journal of Cleaner Production, 2016, 136, 183-196.	4.6	45
71	Sector perception of circular economy driver interrelationships. Journal of Cleaner Production, 2020, 276, 123204.	4.6	45
72	Analysis of inter-plant water integration with indirect integration schemes through game theory approach: Pareto optimal solution with interventions. Clean Technologies and Environmental Policy, 2011, 13, 49-62.	2.1	44

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73	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
74	Targeting for optimal grid-wide deployment of carbon capture and storage (CCS) technology. Chemical Engineering Research and Design, 2014, 92, 835-848.	2.7	43
75	Multi-dimensional pinch analysis for sustainable power generation sector planning in China. Journal of Cleaner Production, 2016, 112, 2756-2771.	4.6	43
76	A Superstructure Optimization Approach for Membrane Separation-Based Water Regeneration Network Synthesis with Detailed Nonlinear Mechanistic Reverse Osmosis Model. Industrial & Engineering Chemistry Research, 2011, 50, 13444-13456.	1.8	42
77	A note on an extended fuzzy bi-level optimization approach for water exchange in eco-industrial parks with hub topology. Chemical Engineering Research and Design, 2011, 89, 106-111.	2.7	42
78	Targeting for carbon sequestration retrofit planning in the power generation sector for multi-period problems. Applied Energy, 2014, 113, 477-487.	5.1	42
79	Prospects and challenges for chemical process synthesis with P-graph. Current Opinion in Chemical Engineering, 2019, 26, 58-64.	3.8	42
80	Environmental performance optimization using process water integration and Sustainable Process Index. Journal of Cleaner Production, 2006, 14, 1586-1592.	4.6	41
81	A dynamic input–output model for nascent bioenergy supply chains. Applied Energy, 2009, 86, S86-S94.	5.1	41
82	A Graphical Approach for Pinch-Based Source–Sink Matching and Sensitivity Analysis in Carbon Capture and Storage Systems. Industrial & Engineering Chemistry Research, 2013, 52, 7211-7222.	1.8	41
83	Carbon emissions pinch analysis of economic systems. Journal of Cleaner Production, 2018, 182, 863-871.	4.6	41
84	Water Network Synthesis Using Mutation-Enhanced Particle Swarm Optimization. Chemical Engineering Research and Design, 2007, 85, 507-514.	2.7	40
85	Hybrid evolutionary computation for the development of pollution prevention and control strategies. Journal of Cleaner Production, 2007, 15, 902-906.	4.6	40
86	Selection of energy conservation projects through Financial Pinch Analysis. Energy, 2017, 138, 602-615.	4.5	40
87	Optimal Source–Sink Matching in Carbon Capture and Storage Systems under Uncertainty. Industrial & Engineering Chemistry Research, 2014, 53, 778-785.	1.8	39
88	A VULNERABILITY INDEX FOR POST-DISASTER KEY SECTOR PRIORITIZATION. Economic Systems Research, 2014, 26, 81-97.	1.2	38
89	Minimizing carbon footprint using pinch analysis: The case of regional renewable electricity planning in China. Applied Energy, 2016, 184, 1051-1062.	5.1	38
90	Allocating human resources in organizations operating under crisis conditions: A fuzzy input-output optimization modeling framework. Resources, Conservation and Recycling, 2018, 128, 250-258.	5.3	38

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91	An algebraic approach to identifying bottlenecks in linear process models of multifunctional energy systems. Theoretical Foundations of Chemical Engineering, 2012, 46, 642-650.	0.2	37
92	A unified model for the deployment of carbon capture and storage. Applied Energy, 2014, 121, 140-148.	5.1	37
93	P-graph approach to optimal operational adjustment in polygeneration plants under conditions of process inoperability. Applied Energy, 2014, 135, 402-406.	5.1	37
94	Synthesis of optimal and near-optimal biochar-based Carbon Management Networks with P-graph. Journal of Cleaner Production, 2019, 214, 893-901.	4.6	37
95	POLCAGE 1.0—a possibilistic life-cycle assessment model for evaluating alternative transportation fuels. Environmental Modelling and Software, 2004, 19, 907-918.	1.9	36
96	Disjunctive fuzzy optimisation for planning and synthesis of bioenergy-based industrial symbiosis system. Journal of Environmental Chemical Engineering, 2014, 2, 652-664.	3.3	36
97	Optimization models for financing innovations in green energy technologies. Renewable and Sustainable Energy Reviews, 2019, 113, 109258.	8.2	36
98	Material flow cost accounting (MFCA)–based approach for prioritisation of waste recovery. Journal of Cleaner Production, 2015, 107, 602-614.	4.6	35
99	Optimal planning, design and synthesis of symbiotic bioenergy parks. Journal of Cleaner Production, 2015, 87, 291-302.	4.6	35
100	Carbon emission pinch analysis (CEPA) for planning the decarbonization of the UK power sector. Sustainable Production and Consumption, 2021, 25, 259-270.	5.7	35
101	Fuzzy optimization of multi-period carbon capture and storage systems with parametric uncertainties. Chemical Engineering Research and Design, 2014, 92, 545-554.	2.7	34
102	Conceptual Synthesis of Gasification-Based Biorefineries Using Thermodynamic Equilibrium Optimization Models. Industrial & Engineering Chemistry Research, 2011, 50, 10681-10695.	1.8	33
103	Planning of carbon capture storage deployment using process graph approach. Energy, 2014, 76, 641-651.	4.5	33
104	Robust Optimization for Process Synthesis and Design of Multifunctional Energy Systems with Uncertainties. Industrial & Engineering Chemistry Research, 2014, 53, 3196-3209.	1.8	33
105	Pinch analysis-based approach to industrial safety risk and environmental management. Clean Technologies and Environmental Policy, 2016, 18, 2107-2117.	2.1	33
106	A game theory approach for corporate environmental risk mitigation. Resources, Conservation and Recycling, 2018, 130, 240-247.	5.3	33
107	Data challenges in optimizing biochar-based carbon sequestration. Renewable and Sustainable Energy Reviews, 2019, 104, 174-177.	8.2	33
108	Probabilistic multi-disruption risk analysis in bioenergy parks via physical input–output modeling and analytic hierarchy process. Sustainable Production and Consumption, 2015, 1, 22-33.	5.7	32

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109	A methodology for criticality analysis in integrated energy systems. Clean Technologies and Environmental Policy, 2015, 17, 935-946.	2.1	32
110	An optimization-based negotiation framework for energy systems in an eco-industrial park. Journal of Cleaner Production, 2016, 129, 496-507.	4.6	32
111	Artificial neural networks for sustainable development: a critical review. Clean Technologies and Environmental Policy, 2020, 22, 1449-1465.	2.1	32
112	Fuzzy data reconciliation in reacting and non-reacting process data for life cycle inventory analysis. Journal of Cleaner Production, 2007, 15, 944-949.	4.6	31
113	A general source-sink model with inoperability constraints for robust energy sector planning. Applied Energy, 2011, 88, 3759-3764.	5.1	31
114	Target-oriented robust optimization of polygeneration systems under uncertainty. Energy, 2016, 116, 1334-1347.	4.5	31
115	Fuzzy analytic hierarchy process and targeting for inter-plant chilled and cooling water network synthesis. Journal of Cleaner Production, 2016, 110, 40-53.	4.6	31
116	A fuzzy linear programming enterprise input–output model for optimal crisis operations in industrial complexes. International Journal of Production Economics, 2016, 181, 410-418.	5.1	31
117	A P-graph model for multi-period optimization of sustainable energy systems. Journal of Cleaner Production, 2017, 161, 1338-1351.	4.6	31
118	Sustainable solid-waste management in coastal and marine tourism cities in Vietnam: A hierarchical-level approach. Resources, Conservation and Recycling, 2021, 168, 105266.	5.3	31
119	Rule-based life cycle impact assessment using modified rough set induction methodology. Environmental Modelling and Software, 2005, 20, 509-513.	1.9	30
120	Extension of targeting procedure for "Ultimate Flowrate Targeting with Regeneration Placement―by Ng et al., Chem. Eng. Res. Des., 85 (A9): 1253–1267. Chemical Engineering Research and Design, 2008, 86, 1182-1186.	2.7	30
121	Screening of carbon dioxide utilization options using hybrid Analytic Hierarchy Process-Data Envelopment Analysis method. Journal of Cleaner Production, 2017, 165, 1361-1370.	4.6	30
122	Fuzzy optimization of carbon management networks based on direct and indirect biomass co-firing. Renewable and Sustainable Energy Reviews, 2020, 132, 110035.	8.2	30
123	Application of symmetric fuzzy linear programming in life cycle assessment. Environmental Modelling and Software, 2005, 20, 1343-1346.	1.9	29
124	Segregated targeting for multiple resource networks using decomposition algorithm. AICHE Journal, 2010, 56, 1235-1248.	1.8	29
125	MILP model for emergy optimization in EIP water networks. Clean Technologies and Environmental Policy, 2011, 13, 703-712.	2.1	29
126	Synthesis of near-optimal topologically constrained property-based water network using swarm intelligence. Clean Technologies and Environmental Policy, 2007, 9, 27-36.	2.1	28

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127	P-graph approach for GDP-optimal allocation of resources, commodities and capital in economic systems under climate change-induced crisis conditions. Journal of Cleaner Production, 2015, 92, 308-317.	4.6	28
128	Design Operability and Retrofit Analysis (DORA) framework for energy systems. Energy, 2017, 134, 1038-1052.	4.5	28
129	Comparing world regional sustainable supply chain finance using big data analytics: a bibliometric analysis. Industrial Management and Data Systems, 2021, 121, 657-700.	2.2	28
130	Fuzzy Optimization Model for Source-Sink Water Network Synthesis with Parametric Uncertainties. Industrial & Engineering Chemistry Research, 2011, 50, 3686-3694.	1.8	27
131	Simultaneous carbon footprint allocation and design of trigeneration plants using fuzzy fractional programming. Clean Technologies and Environmental Policy, 2013, 15, 823-832.	2.1	27
132	State of the Art in Risk Analysis of Workforce Criticality Influencing Disaster Preparedness for Interdependent Systems. Risk Analysis, 2014, 34, 1056-1068.	1.5	27
133	Bi-objective optimization of biochar-based carbon management networks. Journal of Cleaner Production, 2018, 188, 911-920.	4.6	27
134	A generic algebraic targeting approach for integration of renewable energy sources, CO2 capture and storage and negative emission technologies in carbon-constrained energy planning. Energy, 2021, 235, 121280.	4.5	27
135	Fuzzy P-graph for optimal synthesis of cogeneration and trigeneration systems. Energy, 2018, 154, 258-268.	4.5	26
136	Multi-objective optimisation of hybrid power systems under uncertainties. Energy, 2019, 175, 1271-1282.	4.5	26
137	Energy, environmental, economic and social equity (4E) pressures of COVID-19 vaccination mismanagement: A global perspective. Energy, 2021, 235, 121315.	4.5	26
138	Implementation of P-graph modules in undergraduate chemical engineering degree programs: experiences in Malaysia and the Philippines. Journal of Cleaner Production, 2016, 136, 254-265.	4.6	25
139	An integrated analytic hierarchy process and life cycle assessment model for nanocrystalline cellulose production. Food and Bioproducts Processing, 2019, 118, 13-31.	1.8	25
140	Green synthesis of sulfonated organosilane functionalized multiwalled carbon nanotubes and its catalytic activity for one-pot conversion of high free fatty acid seed oil to biodiesel. Journal of Cleaner Production, 2020, 275, 123146.	4.6	25
141	The Economic Impact of Lockdowns: A Persistent Inoperability Input-Output Approach. Economies, 2020, 8, 109.	1.2	25
142	Targeting carbon emissions mitigation in the transport sector – A case study in Urumqi, China. Journal of Cleaner Production, 2020, 259, 120811.	4.6	25
143	Life cycle assessment of self-healing geopolymer concrete. Cleaner Engineering and Technology, 2021, 4, 100147.	2.1	25
144	A heuristic-based algebraic targeting technique for aggregate planning in supply chains. Computers and Chemical Engineering, 2008, 32, 2217-2232.	2.0	24

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145	Fuzzy optimization of a waste-to-energy network system in an eco-industrial park. Journal of Material Cycles and Waste Management, 2015, 17, 476-489.	1.6	24
146	A multi-period source–sink mixed integer linear programming model for biochar-based carbon sequestration systems. Sustainable Production and Consumption, 2016, 8, 57-63.	5.7	24
147	Application of stochastic analytic hierarchy process for evaluating algal cultivation systems for sustainable biofuel production. Clean Technologies and Environmental Policy, 2016, 18, 1281-1294.	2.1	24
148	A system analysis tool for sustainable biomass utilisation considering the Emissions-Cost Nexus. Energy Conversion and Management, 2020, 210, 112701.	4.4	24
149	Biochar systems in the water-energy-food nexus: the emerging role of process systems engineering. Current Opinion in Chemical Engineering, 2017, 18, 32-37.	3.8	23
150	Process-to-Policy (P2Pol): using carbon emission pinch analysis (CEPA) tools for policy-making in the energy sector. Clean Technologies and Environmental Policy, 2019, 21, 1383-1388.	2.1	23
151	Analysis of drought risk management strategies using dynamic inoperability input–output modeling and event tree analysis. Environment Systems and Decisions, 2014, 34, 492-506.	1.9	22
152	Segmented pinch analysis for environmental risk management. Resources, Conservation and Recycling, 2017, 122, 353-361.	5.3	22
153	Energy sector planning using multiple-index pinch analysis. Clean Technologies and Environmental Policy, 2017, 19, 1967-1975.	2.1	22
154	Pinch analysis for targeting desalinated water price subsidy. Journal of Cleaner Production, 2019, 227, 950-959.	4.6	22
155	Optimal integration of a biomassâ€based polygeneration system in an iron production plant for negative carbon emissions. International Journal of Energy Research, 2020, 44, 9350-9366.	2.2	22
156	Techno-economic and life-cycle assessment of volatile oil extracted from Aquilaria sinensis using supercritical carbon dioxide. Journal of CO2 Utilization, 2020, 38, 158-167.	3.3	22
157	Optimization of the Automotive Ammonia Fuel Cycle Using P-Graphs. ACS Sustainable Chemistry and Engineering, 2017, 5, 8277-8283.	3.2	21
158	Asset maintenance optimisation approaches in the chemical and process industries – A review. Chemical Engineering Research and Design, 2020, 164, 162-194.	2.7	21
159	Rigorous proof of fuzzy error propagation with matrix-based LCI. International Journal of Life Cycle Assessment, 2010, 15, 1014-1019.	2.2	20
160	Fuzzy multi-footprint optimisation (FMFO) for synthesis of a sustainable value chain: Malaysian sago industry. Journal of Cleaner Production, 2016, 128, 62-76.	4.6	20
161	A Pinch-Based Approach for Targeting Carbon Capture, Utilization, and Storage Systems. Industrial & Engineering Chemistry Research, 2019, 58, 3188-3198.	1.8	20
162	Water footprint sustainability assessment for the chemical sector at the regional level. Resources, Conservation and Recycling, 2019, 142, 69-77.	5.3	20

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163	Multi-objective expansion analysis for sustainable agro-industrial value chains based on profit, carbon and water footprint. Journal of Cleaner Production, 2021, 288, 125117.	4.6	20
164	Power system planning with emission constraints: Effects of CCS retrofitting. Chemical Engineering Research and Design, 2014, 92, 447-455.	2.7	19
165	An extended P-graph approach to process network synthesis for multi-period operations. Computers and Chemical Engineering, 2016, 85, 40-42.	2.0	19
166	Synthesis of Resource Conservation Networks with P-Graph Approach—Direct Reuse/Recycle. Process Integration and Optimization for Sustainability, 2017, 1, 69-86.	1.4	19
167	Graphical Pinch Analysis for Planning Biochar-Based Carbon Management Networks. Process Integration and Optimization for Sustainability, 2018, 2, 159-168.	1.4	19
168	Prediction of CO2 storage site integrity with rough set-based machine learning. Clean Technologies and Environmental Policy, 2019, 21, 1655-1664.	2.1	19
169	A Multi-Objective Optimization Model for the Design of Biomass Co-Firing Networks Integrating Feedstock Quality Considerations. Energies, 2019, 12, 2252.	1.6	19
170	Extended Graphical Approach for the Deployment of Negative Emission Technologies. Industrial & Engineering Chemistry Research, 2020, 59, 18977-18990.	1.8	19
171	Towards data-driven process integration for renewable energy planning. Current Opinion in Chemical Engineering, 2021, 31, 100665.	3.8	19
172	P-Graph Approach to Optimizing Crisis Operations in an Industrial Complex. Industrial & Engineering Chemistry Research, 2016, 55, 3467-3477.	1.8	18
173	The role of process integration in managing resource constraints on negative emissions technologies. Resources, Conservation and Recycling, 2020, 153, 104540.	5.3	18
174	Exploring sustainable seafood supply chain management based on linguistic preferences: collaboration in the supply chain and lean management drive economic benefits. International Journal of Logistics Research and Applications, 2022, 25, 410-432.	5.6	18
175	Can disruptive events trigger transitions towards sustainable consumption?. Cleaner and Responsible Consumption, 2020, 1, 100001.	1.6	18
176	Data driven supplier selection as a circular economy enabler: A Taguchi capability index for manufactured products with asymmetric tolerances. Advanced Engineering Informatics, 2021, 47, 101249.	4.0	18
177	Regional carbon drawdown with enhanced weathering of non-hazardous industrial wastes. Resources, Conservation and Recycling, 2022, 176, 105910.	5.3	18
178	A Property-Integration Approach to the Design and Integration of Eco-Industrial Parks. , 2009, , 559-567.		17
179	A methodology for augmenting sparse pairwise comparison matrices in AHP: applications to energy systems. Clean Technologies and Environmental Policy, 2013, 15, 713-719.	2.1	17
180	Heuristic framework for the debottlenecking of a palm oil-based integrated biorefinery. Chemical Engineering Research and Design, 2014, 92, 2071-2082.	2.7	17

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181	P-graph approach to criticality analysis in integrated bioenergy systems. Clean Technologies and Environmental Policy, 2017, 19, 1841-1854.	2.1	17
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