

Raymond R Tan

List of Publications by Year in descending order

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357
papers

11,572
citations

36271

51
h-index

49868

87
g-index

365
all docs

365
docs citations

365
times ranked

7301
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring sustainable seafood supply chain management based on linguistic preferences: collaboration in the supply chain and lean management drive economic benefits. <i>International Journal of Logistics Research and Applications</i> , 2022, 25, 410-432.	5.6	18
2	Fuzzy optimization model for enhanced weathering networks using industrial waste. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 21-37.	2.1	11
3	Modelling vicious networks with P-graph causality maps. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 173-184.	2.1	3
4	Causal network maps of urban circular economies. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 261-272.	2.1	7
5	A fuzzy optimization model for planning integrated terrestrial carbon management networks. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 289-301.	2.1	6
6	Forecasting plastic waste generation and interventions for environmental hazard mitigation. <i>Journal of Hazardous Materials</i> , 2022, 424, 127330.	6.5	55
7	Regional carbon drawdown with enhanced weathering of non-hazardous industrial wastes. <i>Resources, Conservation and Recycling</i> , 2022, 176, 105910.	5.3	18
8	Design of fragrance molecules using computer-aided molecular design with machine learning. <i>Computers and Chemical Engineering</i> , 2022, 157, 107585.	2.0	11
9	Circular economy meets the drawdown economy: Enhanced weathering of industrial solid waste as a win-win solution. <i>Resources, Conservation and Recycling</i> , 2022, 178, 106029.	5.3	7
10	Reducing resource use and emissions by integrating technology and policy solutions. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 1-2.	2.1	0
11	Extended graphical approach for the implementation of energy-consuming negative emission technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 158, 112082.	8.2	10
12	Green Synthesis, Characterization, and Catalytic Activity of Amine-multiwalled Carbon Nanotube for Biodiesel Production. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2022, 17, 286-303.	0.5	1
13	Optimization of enhanced weathering networks with alternative transportation modes. <i>Carbon Resources Conversion</i> , 2022, 5, 167-176.	3.2	7
14	Design of mosquito repellent molecules via the integration of hyperbox machine learning and computer aided molecular design. <i>Digital Chemical Engineering</i> , 2022, 3, 100018.	1.2	6
15	Industrial water network vulnerability analysis using dynamic inoperability input-output model. <i>Journal of Environmental Management</i> , 2022, 314, 115015.	3.8	8
16	Fuzzy mixed-integer linear and quadratic programming models for planning negative emissions technologies portfolios with synergistic interactions. <i>Cleaner Engineering and Technology</i> , 2022, 9, 100507.	2.1	5
17	P-graph optimization of energy crisis response in Leontief systems with partial substitution. <i>Cleaner Engineering and Technology</i> , 2022, 9, 100510.	2.1	3
18	Carbon footprint of self-healing geopolymer concrete with variable mix model. , 2022, 2, 100027.		4

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19	Data set on oil palm plantation production and LUC emissions under different management strategies. Data in Brief, 2022, 43, 108329.	0.5	1
20	Maintaining the productivity of co-culture systems in the face of environmental change. Nature Sustainability, 2022, 5, 749-752.	11.5	6
21	Predicting waste management system performance from city and country attributes. Journal of Cleaner Production, 2022, 366, 132951.	4.6	13
22	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
23	Sustainable supply chain management towards disruption and organizational ambidexterity: A data driven analysis. Sustainable Production and Consumption, 2021, 26, 373-410.	5.7	128
24	Strengthening rectangular columns using recycled PET bottle strips. Engineering Science and Technology, an International Journal, 2021, 24, 405-413.	2.0	10
25	A P-Graph approach for the synthesis of hydrogen networks with pressure and impurity constraints. International Journal of Hydrogen Energy, 2021, 46, 29198-29215.	3.8	13
26	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
27	Optimisation of biochar-based supply chains for negative emissions and resource savings in carbon management networks. Clean Technologies and Environmental Policy, 2021, 23, 621-638.	2.1	8
28	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
29	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
30	Planning of non-conventional gas field development with parametric uncertainties. Computer Aided Chemical Engineering, 2021, , 1865-1870.	0.3	1
31	P-graph Causality Maps. Process Integration and Optimization for Sustainability, 2021, 5, 319-334.	1.4	5
32	Conceptual Design of a Negative Emissions Polygeneration Plant for Multiperiod Operations Using P-Graph. Processes, 2021, 9, 233.	1.3	8
33	Milestones and Best Papers 2017-2020. Process Integration and Optimization for Sustainability, 2021, 5, 1-2.	1.4	3
34	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
35	Evaluation of the integration of recycling unit in an iron manufacturing plant. IOP Conference Series: Materials Science and Engineering, 2021, 1109, 012025.	0.3	0
36	Towards data-driven process integration for renewable energy planning. Current Opinion in Chemical Engineering, 2021, 31, 100665.	3.8	19

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37	Integrated graphical approach for selecting industrial water conservation projects. Journal of Cleaner Production, 2021, 287, 125503.	4.6	9
38	On life-cycle sustainability optimization of enhanced weathering systems. Journal of Cleaner Production, 2021, 289, 125836.	4.6	16
39	Assessing the Reliability of Integrated Bioenergy Systems to Capacity Disruptions via Monte Carlo Simulation. Process Integration and Optimization for Sustainability, 2021, 5, 695-705.	1.4	5
40	Ternary Diagram for Visualizing Epidemic Progression. Process Integration and Optimization for Sustainability, 2021, 5, 687-691.	1.4	1
41	What university attributes predict for graduate employability?. Cleaner Engineering and Technology, 2021, 2, 100069.	2.1	3
42	A Hybrid Optimisation Model for Land Allocation and Storage Sizing in Agro-Food System. Process Integration and Optimization for Sustainability, 2021, 5, 729-743.	1.4	5
43	System dynamics simulation for park-wide environmental pollution liability insurance. Resources, Conservation and Recycling, 2021, 170, 105578.	5.3	8
44	Taiwan Drought was a Microcosm of Climate Change Adaptation Challenges in Complex Island Economies. Process Integration and Optimization for Sustainability, 2021, 5, 317-318.	1.4	8
45	A causal eco-industrial park hierarchical transition model with qualitative information: Policy and regulatory framework leads to collaboration among firms. Journal of Environmental Management, 2021, 292, 112735.	3.8	12
46	Shapley-Shubik Index incorporated debottlenecking framework for sustainable food-energy-water nexus optimised palm oil-based complex. Journal of Cleaner Production, 2021, 309, 127437.	4.6	3
47	Life cycle assessment of self-healing geopolymer concrete. Cleaner Engineering and Technology, 2021, 4, 100147.	2.1	25
48	Does age matter? A strategic planning model to optimise perennial crops based on cost and discounted carbon value. Journal of Cleaner Production, 2021, 318, 128526.	4.6	6
49	Pinch-based planning of terrestrial carbon management networks. Cleaner Engineering and Technology, 2021, 4, 100141.	2.1	8
50	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
51	Equipment size selection for optimizing polygeneration systems with reliability aspects. Energy, 2021, 234, 121302.	4.5	1
52	Energy, environmental, economic and social equity (4E) pressures of COVID-19 vaccination mismanagement: A global perspective. Energy, 2021, 235, 121315.	4.5	26
53	Optimizing regional electricity trading with Carbon Emissions Pinch Analysis. Energy, 2021, 237, 121544.	4.5	10
54	Logical analysis of data for ranking green technologies. Cleaner Engineering and Technology, 2021, 5, 100291.	2.1	0

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55	The lost art of short communications in academia. <i>Scientometrics</i> , 2021, 126, 9633-9637.	1.6	5
56	Short-term wind power forecasting based on support vector machine with improved dragonfly algorithm. <i>Journal of Cleaner Production</i> , 2020, 242, 118447.	4.6	264
57	Life-cycle costing: Analysis of biofuel production systems. , 2020, , 227-253.		2
58	A graphical method for carbon dioxide emissions reduction in multi-product plants. <i>Chemical Engineering Research and Design</i> , 2020, 133, 51-63.	2.7	10
59	Optimal integration of a biomass-based polygeneration system in an iron production plant for negative carbon emissions. <i>International Journal of Energy Research</i> , 2020, 44, 9350-9366.	2.2	22
60	An improved moth-flame optimization algorithm for support vector machine prediction of photovoltaic power generation. <i>Journal of Cleaner Production</i> , 2020, 253, 119966.	4.6	100
61	The role of process integration in managing resource constraints on negative emissions technologies. <i>Resources, Conservation and Recycling</i> , 2020, 153, 104540.	5.3	18
62	A hyperbox classifier model for identifying secure carbon dioxide reservoirs. <i>Journal of Cleaner Production</i> , 2020, 272, 122181.	4.6	10
63	Extended Graphical Approach for the Deployment of Negative Emission Technologies. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 18977-18990.	1.8	19
64	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. <i>Journal of Cleaner Production</i> , 2020, 275, 123146.	4.6	25
65	Optimizing abnormal operations of off-grid community utility systems with fuzzy P-graph. <i>Energy</i> , 2020, 202, 117725.	4.5	13
66	Sector perception of circular economy driver interrelationships. <i>Journal of Cleaner Production</i> , 2020, 276, 123204.	4.6	45
67	Fuzzy optimization of carbon management networks based on direct and indirect biomass co-firing. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 132, 110035.	8.2	30
68	Risk and resilience analysis of integrated biorefineries using input-output modeling. , 2020, , 99-114.		2
69	Model-based synthesis and Monte Carlo simulation of biochar-based carbon management networks. , 2020, , 293-307.		0
70	Implications of the pandemic-induced electronic equipment demand surge on essential technology metals. <i>Cleaner and Responsible Consumption</i> , 2020, 1, 100005.	1.6	6
71	Modelling a decision-making network for sustainable manufacturing strategy. <i>Progress in Industrial Ecology</i> , 2020, 14, 58.	0.1	5
72	Holistically addressing uncertainty in group decision-making: the case of a 'quasi-collaborative' group structure. <i>International Journal of Mathematics in Operational Research</i> , 2020, 16, 316.	0.1	0

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73	Design of fragrant molecules through the incorporation of rough sets into computer-aided molecular design. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 1391-1416.	1.7	14
74	Eco-efficient sustainable service supply chain management hierarchical model based on qualitative information and quantitative data. <i>Management of Environmental Quality</i> , 2020, 31, 961-984.	2.2	15
75	Asset maintenance optimisation approaches in the chemical and process industries – A review. <i>Chemical Engineering Research and Design</i> , 2020, 164, 162-194.	2.7	21
76	Socio-ecological network structures from process graphs. <i>PLoS ONE</i> , 2020, 15, e0232384.	1.1	10
77	The Economic Impact of Lockdowns: A Persistent Inoperability Input-Output Approach. <i>Economies</i> , 2020, 8, 109.	1.2	25
78	Can disruptive events trigger transitions towards sustainable consumption?. <i>Cleaner and Responsible Consumption</i> , 2020, 1, 100001.	1.6	18
79	On general principles at the sustainability science-policy interface. <i>Resources, Conservation and Recycling</i> , 2020, 158, 104828.	5.3	9
80	Differentiating ethical imperatives of the collective sustainability research community and the individual researcher. <i>Resources, Conservation and Recycling</i> , 2020, 160, 104928.	5.3	2
81	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
82	Carbon Emissions Constrained Energy Planning for Aluminum Products. <i>Energies</i> , 2020, 13, 2753.	1.6	11
83	Enhanced Hyperbox Classifier Model for Nanomaterial Discovery. <i>AI</i> , 2020, 1, 299-311.	2.1	8
84	Process integration for emerging challenges: optimal allocation of antivirals under resource constraints. <i>Clean Technologies and Environmental Policy</i> , 2020, 22, 1359-1370.	2.1	9
85	A system analysis tool for sustainable biomass utilisation considering the Emissions-Cost Nexus. <i>Energy Conversion and Management</i> , 2020, 210, 112701.	4.4	24
86	Induction approach via P-Graph to rank clean technologies. <i>Heliyon</i> , 2020, 6, e03083.	1.4	10
87	Optimal Process Capacity Allocation Under Abnormal Conditions. <i>Process Integration and Optimization for Sustainability</i> , 2020, 4, 163-169.	1.4	3
88	Artificial neural networks for sustainable development: a critical review. <i>Clean Technologies and Environmental Policy</i> , 2020, 22, 1449-1465.	2.1	32
89	Data set and model code on the optimal operating state of a negative emission polygeneration system. <i>Data in Brief</i> , 2020, 29, 105140.	0.5	1
90	Techno-economic and life-cycle assessment of volatile oil extracted from <i>Aquilaria sinensis</i> using supercritical carbon dioxide. <i>Journal of CO2 Utilization</i> , 2020, 38, 158-167.	3.3	22

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91	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
92	Synthesis of refinery hydrogen network integrated with hydrogen turbines for power recovery. Energy, 2020, 201, 117623.	4.5	16
93	Targeting carbon emissions mitigation in the transport sector – A case study in Urumqi, China. Journal of Cleaner Production, 2020, 259, 120811.	4.6	25
94	Can global pharmaceutical supply chains scale up sustainably for the COVID-19 crisis?. Resources, Conservation and Recycling, 2020, 159, 104868.	5.3	51
95	Ranking negative emissions technologies under uncertainty. Heliyon, 2020, 6, e05730.	1.4	17
96	Continuous improvement strategies for environmental risk mitigation in chemical plants. Resources, Conservation and Recycling, 2020, 160, 104885.	5.3	17
97	Optimal Planning of Biomass Co-Firing Networks with Biochar-Based Carbon Sequestration. , 2020, , 344-358.		3
98	Dataset for off-grid micro-hydroelectric community system under drought conditions. Data in Brief, 2020, 31, 105717.	0.5	0
99	Algebraic and Automated Targeting Techniques for Carbon Emission Pinch Analysis (CEPA). , 2020, , 23-37.		0
100	Graphical Targeting Techniques for Carbon Emission Pinch Analysis (CEPA). , 2020, , 11-22.		0
101	Pinch Analysis Techniques for Carbon Capture and Storage (CCS). , 2020, , 39-55.		1
102	Superstructure-Based Mathematical Programming. , 2020, , 57-69.		0
103	Ranking Negative Emissions Technology Options under Uncertainty. , 2020, , 273-285.		0
104	Socio-ecological network structures from process graphs. , 2020, 15, e0232384.		0
105	Socio-ecological network structures from process graphs. , 2020, 15, e0232384.		0
106	Socio-ecological network structures from process graphs. , 2020, 15, e0232384.		0
107	Socio-ecological network structures from process graphs. , 2020, 15, e0232384.		0
108	Socio-ecological network structures from process graphs. , 2020, 15, e0232384.		0

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109	Socio-ecological network structures from process graphs. , 2020, 15, e0232384.		0
110	An Integrated Framework to Address Criticality in Biomass Tri-Generation Systems via Redundancy Allocation. Process Integration and Optimization for Sustainability, 2019, 3, 65-73.	1.4	14
111	Prediction of CO2 storage site integrity with rough set-based machine learning. Clean Technologies and Environmental Policy, 2019, 21, 1655-1664.	2.1	19
112	Optimization models for financing innovations in green energy technologies. Renewable and Sustainable Energy Reviews, 2019, 113, 109258.	8.2	36
113	A mathematical optimisation model for analysis of minimal cropland expansion in agro value chains. Sustainable Production and Consumption, 2019, 20, 178-191.	5.7	10
114	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
115	Optimal synthesis of negative emissions polygeneration systems with desalination. Energy, 2019, 187, 115953.	4.5	12
116	A linear program for optimizing enhanced weathering networks. Results in Engineering, 2019, 3, 100028.	2.2	13
117	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
118	Optimal Design of a Trigeneration Plant using Fuzzy Linear Programming with Global Sensitivity Analysis on Product Price Uncertainty. Energy Procedia, 2019, 158, 2176-2181.	1.8	5
119	Prospects and challenges for chemical process synthesis with P-graph. Current Opinion in Chemical Engineering, 2019, 26, 58-64.	3.8	42
120	Improving the Reliability of Photovoltaic and Wind Power Storage Systems Using Least Squares Support Vector Machine Optimized by Improved Chicken Swarm Algorithm. Applied Sciences (Switzerland), 2019, 9, 3788.	1.3	12
121	Minimizing the carbon footprint of urban reconstruction projects. Journal of Cleaner Production, 2019, 240, 118222.	4.6	4
122	Data challenges in optimizing biochar-based carbon sequestration. Renewable and Sustainable Energy Reviews, 2019, 104, 174-177.	8.2	33
123	A Pinch-Based Approach for Targeting Carbon Capture, Utilization, and Storage Systems. Industrial & Engineering Chemistry Research, 2019, 58, 3188-3198.	1.8	20
124	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
125	A Multi-Objective Optimization Model for the Design of Biomass Co-Firing Networks Integrating Feedstock Quality Considerations. Energies, 2019, 12, 2252.	1.6	19
126	A Methodology for Tracing the Rank Invariance Region in Multi-Criterion Selection Problems: Application to Negative Emission Technologies. Process Integration and Optimization for Sustainability, 2019, 3, 533-536.	1.4	7

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127	Optimal Operational Adjustment of a Community-Based Off-Grid Polygeneration Plant using a Fuzzy Mixed Integer Linear Programming Model. <i>Energies</i> , 2019, 12, 636.	1.6	7
128	Circular Integration of processes, industries, and economies. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 107, 507-515.	8.2	95
129	Multi-objective optimisation of hybrid power systems under uncertainties. <i>Energy</i> , 2019, 175, 1271-1282.	4.5	26
130	Hybrid Approach for Optimisation and Analysis of Palm Oil Mill. <i>Processes</i> , 2019, 7, 100.	1.3	15
131	Pinch analysis for targeting desalinated water price subsidy. <i>Journal of Cleaner Production</i> , 2019, 227, 950-959.	4.6	22
132	Optimization-based decision support methodology for the synthesis of negative-emissions biochar systems. <i>Sustainable Production and Consumption</i> , 2019, 19, 105-116.	5.7	11
133	Integrated sustainability assessment of chemical production chains. <i>Journal of Cleaner Production</i> , 2019, 219, 894-905.	4.6	9
134	Industry 4.0 to Accelerate the Circular Economy: A Case Study of Electric Scooter Sharing. <i>Sustainability</i> , 2019, 11, 6661.	1.6	71
135	Design, optimisation and reliability allocation for energy systems based on equipment function and operating capacity. <i>Heliyon</i> , 2019, 5, e02594.	1.4	13
136	Future Research Prospects for Input-Output Models. <i>Lecture Notes in Management and Industrial Engineering</i> , 2019, , 139-143.	0.3	0
137	Input-Output Models of Infrastructure Systems. <i>Lecture Notes in Management and Industrial Engineering</i> , 2019, , 63-74.	0.3	3
138	A cradle-to-cradle analysis in the toner cartridge supply chain using fuzzy recycling production approach. <i>Management of Environmental Quality</i> , 2019, 30, 329-345.	2.2	14
139	Water footprint sustainability assessment for the chemical sector at the regional level. <i>Resources, Conservation and Recycling</i> , 2019, 142, 69-77.	5.3	20
140	Synthesis of optimal and near-optimal biochar-based Carbon Management Networks with P-graph. <i>Journal of Cleaner Production</i> , 2019, 214, 893-901.	4.6	37
141	Pathways and barriers to circularity in food systems. <i>Resources, Conservation and Recycling</i> , 2019, 143, 236-237.	5.3	55
142	Target-oriented robust optimization of emissions reduction measures with uncertain cost and performance. <i>Clean Technologies and Environmental Policy</i> , 2019, 21, 201-212.	2.1	5
143	Cooperative Game Theory Analysis for Implementing Green Technologies in Palm Oil Milling Processes. <i>Green Energy and Technology</i> , 2019, , 173-190.	0.4	2
144	Input-Output Models of Industrial Plants. <i>Lecture Notes in Management and Industrial Engineering</i> , 2019, , 107-123.	0.3	0

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145	Input-Output Models of Industrial Complexes. Lecture Notes in Management and Industrial Engineering, 2019, , 47-62.	0.3	0
146	Bi-objective optimization of biochar-based carbon management networks. Journal of Cleaner Production, 2018, 188, 911-920.	4.6	27
147	Graphical Pinch Analysis for Planning Biochar-Based Carbon Management Networks. Process Integration and Optimization for Sustainability, 2018, 2, 159-168.	1.4	19
148	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
149	Carbon emissions pinch analysis of economic systems. Journal of Cleaner Production, 2018, 182, 863-871.	4.6	41
150	A multi-region input-output model for optimizing virtual water trade flows in agricultural crop production. Management of Environmental Quality, 2018, 29, 63-75.	2.2	6
151	Synthesis of Cogeneration, Trigeneration, and Polygeneration Systems Using Target-Oriented Robust Optimization. Green Energy and Technology, 2018, , 155-171.	0.4	2
152	Optimal Sizing and Design of Hybrid Power Systems. ACS Sustainable Chemistry and Engineering, 2018, 6, 2482-2490.	3.2	13
153	Circular economy meets industry 4.0: Can big data drive industrial symbiosis?. Resources, Conservation and Recycling, 2018, 131, 146-147.	5.3	324
154	Fuzzy P-graph for optimal synthesis of cogeneration and trigeneration systems. Energy, 2018, 154, 258-268.	4.5	26
155	Fuzzy optimization of the automotive ammonia fuel cycle. Journal of Cleaner Production, 2018, 186, 877-882.	4.6	16
156	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
157	A design of experiments approach to the sensitivity analysis of the life cycle cost of biodiesel. Clean Technologies and Environmental Policy, 2018, 20, 573-580.	2.1	7
158	Enhancing molecular safety and health assessment via index smoothing and prioritisation. Molecular Systems Design and Engineering, 2018, 3, 113-130.	1.7	4
159	Multi-objective target oriented robust optimization for the design of an integrated biorefinery. Journal of Cleaner Production, 2018, 170, 496-509.	4.6	55
160	A game theory approach for corporate environmental risk mitigation. Resources, Conservation and Recycling, 2018, 130, 240-247.	5.3	33
161	A review of optimization and decision-making models for the planning of carbon capture, utilization and storage (CCUS) systems. Sustainable Production and Consumption, 2018, 13, 1-15.	5.7	222
162	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

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163	A Mathematical Technique for Multi-period Planning of Unconventional Gas Field Development. Computer Aided Chemical Engineering, 2018, , 1243-1248.	0.3	2
164	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
165	Integrated multi-scale water management as a climate change adaptation strategy. Clean Technologies and Environmental Policy, 2018, 20, 1123-1125.	2.1	13
166	Life Cycle Assessment (LCA) of Production and Fractionation of Bio-Oil Derived from Palm Kernel Shell: a Gate-to-Gate Case Study. Process Integration and Optimization for Sustainability, 2018, 2, 343-351.	1.4	13
167	P-graph and Monte Carlo simulation approach to planning carbon management networks. Computers and Chemical Engineering, 2017, 106, 872-882.	2.0	62
168	Segmented pinch analysis for environmental risk management. Resources, Conservation and Recycling, 2017, 122, 353-361.	5.3	22
169	P-graph approach to criticality analysis in integrated bioenergy systems. Clean Technologies and Environmental Policy, 2017, 19, 1841-1854.	2.1	17
170	Energy sector planning using multiple-index pinch analysis. Clean Technologies and Environmental Policy, 2017, 19, 1967-1975.	2.1	22
171	Design Operability and Retrofit Analysis (DORA) framework for energy systems. Energy, 2017, 134, 1038-1052.	4.5	28
172	A P-graph model for multi-period optimization of sustainable energy systems. Journal of Cleaner Production, 2017, 161, 1338-1351.	4.6	31
173	Towards "climate-proof" industrial networks. Resources, Conservation and Recycling, 2017, 127, 244-245.	5.3	8
174	Problem-based learning of process systems engineering and process integration concepts with metacognitive strategies: The case of P-graphs for polygeneration systems. Applied Thermal Engineering, 2017, 127, 1317-1325.	3.0	17
175	P-graph approach to human resource reallocation in industrial plants under crisis conditions. , 2017, , .		0
176	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
177	Selection of energy conservation projects through Financial Pinch Analysis. Energy, 2017, 138, 602-615.	4.5	40
178	Study of microalgae cultivation systems based on integrated analytic hierarchy process "life cycle optimization. Clean Technologies and Environmental Policy, 2017, 19, 2075-2088.	2.1	11
179	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
180	Pinch analysis approach to optimal planning of biochar-based carbon management networks. , 2017, , .		5

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181	Optimization of the Automotive Ammonia Fuel Cycle Using P-Graphs. ACS Sustainable Chemistry and Engineering, 2017, 5, 8277-8283.	3.2	21
182	Synthesis of Material Interception Networks with P-Graph. Process Integration and Optimization for Sustainability, 2017, 1, 225-235.	1.4	11
183	Mapping a Low-Carbon Future for the Philippines: Scenario Results from a Fractional Programming Input-Output Model. Process Integration and Optimization for Sustainability, 2017, 1, 293-299.	1.4	7
184	Synthesis of Resource Conservation Networks with P-Graph Approachâ€”Direct Reuse/Recycle. Process Integration and Optimization for Sustainability, 2017, 1, 69-86.	1.4	19
185	Pursuing Sustainability with Process Integration and Optimization. Process Integration and Optimization for Sustainability, 2017, 1, 1-2.	1.4	2
186	Targeting for cogeneration potential and steam allocation for steam distribution network. Applied Thermal Engineering, 2017, 113, 1610-1621.	3.0	17
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