

Denny K S Ng

List of Publications by Year in descending order

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183
papers

5,580
citations

66234

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195
times ranked

3156
citing authors

#	ARTICLE	IF	CITATIONS
1	Continuous-Time Optimization Model for Source-Sink Matching in Carbon Capture and Storage Systems. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 10015-10020.	1.8	318
2	Review of evolution, technology and sustainability assessments of biofuel production. <i>Journal of Cleaner Production</i> , 2014, 71, 11-29.	4.6	222
3	Best practice of prefabrication implementation in the Hong Kong public and private sectors. <i>Journal of Cleaner Production</i> , 2015, 109, 216-231.	4.6	148
4	Synthesis of Direct and Indirect Interplant Water Network. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 9485-9496.	1.8	136
5	Extended pinch targeting techniques for carbon-constrained energy sector planning. <i>Applied Energy</i> , 2009, 86, 60-67.	5.1	123
6	Automated Targeting Technique for Single-Impurity Resource Conservation Networks. Part 2: Single-Pass and Partitioning Waste-Interception Systems. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 7647-7661.	1.8	123
7	Role of bioenergy, biorefinery and bioeconomy in sustainable development: Strategic pathways for Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 81, 1966-1987.	8.2	120
8	Carbon and footprint-constrained energy planning using cascade analysis technique. <i>Energy</i> , 2008, 33, 1480-1488.	4.5	111
9	Automated Targeting Technique for Single-Impurity Resource Conservation Networks. Part 1: Direct Reuse/Recycle. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 7637-7646.	1.8	110
10	A shortcut method for the preliminary synthesis of process-technology pathways: An optimization approach and application for the conceptual design of integrated biorefineries. <i>Computers and Chemical Engineering</i> , 2011, 35, 1374-1383.	2.0	110
11	Pinch analysis approach to carbon-constrained planning for sustainable power generation. <i>Journal of Cleaner Production</i> , 2009, 17, 940-944.	4.6	109
12	Fuzzy Optimization Approach for the Synthesis of a Sustainable Integrated Biorefinery. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 1652-1665.	1.8	95
13	Automated targeting for conventional and bilateral property-based resource conservation network. <i>Chemical Engineering Journal</i> , 2009, 149, 87-101.	6.6	87
14	Automated targeting technique for concentration- and property-based total resource conservation network. <i>Computers and Chemical Engineering</i> , 2010, 34, 825-845.	2.0	86
15	Fuzzy optimisation for retrofitting a palm oil mill into a sustainable palm oil-based integrated biorefinery. <i>Chemical Engineering Journal</i> , 2012, 200-202, 694-709.	6.6	85
16	Green strategy for sustainable waste-to-energy supply chain. <i>Energy</i> , 2013, 57, 4-16.	4.5	85
17	The use of graphical pinch analysis for visualizing water footprint constraints in biofuel production. <i>Applied Energy</i> , 2009, 86, 605-609.	5.1	76
18	Mixed-waste pyrolysis of biomass and plastics waste - A modelling approach to reduce energy usage. <i>Energy</i> , 2014, 75, 127-135.	4.5	75

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19	Targeting for Total Water Network. 2. Waste Treatment Targeting and Interactions with Water System Elements. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 9114-9125.	1.8	74
20	Targeting for Total Water Network. 1. Waste Stream Identification. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 9107-9113.	1.8	74
21	Automated targeting for the synthesis of an integrated biorefinery. <i>Chemical Engineering Journal</i> , 2010, 162, 67-74.	6.6	73
22	Ultimate Flowrate Targeting with Regeneration Placement. <i>Chemical Engineering Research and Design</i> , 2007, 85, 1253-1267.	2.7	71
23	Fuzzy mixed-integer linear programming model for optimizing a multi-functional bioenergy system with biochar production for negative carbon emissions. <i>Clean Technologies and Environmental Policy</i> , 2014, 16, 1537-1549.	2.1	61
24	Systematic Approach for Synthesis of Integrated Palm Oil Processing Complex. Part 1: Single Owner. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 10206-10220.	1.8	60
25	Process synthesis and optimization of a sustainable integrated biorefinery via fuzzy optimization. <i>AIChE Journal</i> , 2013, 59, 4212-4227.	1.8	57
26	Synthesis of sustainable integrated biorefinery via reaction pathway synthesis: Economic, incremental environmental burden and energy assessment with multiobjective optimization. <i>AIChE Journal</i> , 2015, 61, 132-146.	1.8	55
27	An optimization-based cooperative game approach for systematic allocation of costs and benefits in interplant process integration. <i>Chemical Engineering Research and Design</i> , 2016, 106, 43-58.	2.7	55
28	Synthesis of an integrated biorefinery via the C-H-O ternary diagram. <i>Clean Technologies and Environmental Policy</i> , 2011, 13, 567-579.	2.1	53
29	Carbon Constrained Energy Planning (CCEP) for Sustainable Power Generation Sector with Automated Targeting Model. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 9889-9896.	1.8	53
30	Systematic Approach for Synthesis of Integrated Palm Oil Processing Complex. Part 2: Multiple Owners. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 10221-10235.	1.8	53
31	Planning of carbon capture and storage with pinch analysis techniques. <i>Chemical Engineering Research and Design</i> , 2013, 91, 2721-2731.	2.7	52
32	A superstructure model for the synthesis of single-contaminant water networks with partitioning regenerators. <i>Chemical Engineering Research and Design</i> , 2009, 87, 197-205.	2.7	51
33	Crisp and fuzzy integer programming models for optimal carbon sequestration retrofit in the power sector. <i>Chemical Engineering Research and Design</i> , 2010, 88, 1580-1588.	2.7	50
34	Robust optimization approach for synthesis of integrated biorefineries with supply and demand uncertainties. <i>Environmental Progress and Sustainable Energy</i> , 2013, 32, 384-389.	1.3	50
35	Unified pinch approach for targeting of carbon capture and storage (CCS) systems with multiple time periods and regions. <i>Journal of Cleaner Production</i> , 2014, 71, 67-74.	4.6	50
36	Simultaneous synthesis of property-based water reuse/recycle and interception networks for batch processes. <i>AIChE Journal</i> , 2008, 54, 2624-2632.	1.8	49

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37	Flowrate Targeting Algorithm for Interplant Resource Conservation Network. Part 1: Unassisted Integration Scheme. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 6439-6455.	1.8	49
38	Optimal source-sink matching in carbon capture and storage systems with time, injection rate, and capacity constraints. <i>Environmental Progress and Sustainable Energy</i> , 2013, 32, 411-416.	1.3	49
39	Optimal operational adjustment in multi-functional energy systems in response to process inoperability. <i>Applied Energy</i> , 2013, 102, 492-500.	5.1	47
40	Simultaneous Process Synthesis, Heat and Power Integration in a Sustainable Integrated Biorefinery. <i>Energy & Fuels</i> , 2012, 26, 7316-7330.	2.5	46
41	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. <i>Journal of Cleaner Production</i> , 2016, 136, 183-196.	4.6	45
42	Targeting for optimal grid-wide deployment of carbon capture and storage (CCS) technology. <i>Chemical Engineering Research and Design</i> , 2014, 92, 835-848.	2.7	43
43	Multiple-cascade automated targeting for synthesis of a gasification-based integrated biorefinery. <i>Journal of Cleaner Production</i> , 2012, 34, 38-48.	4.6	41
44	A Graphical Approach for Pinch-Based Source-Sink Matching and Sensitivity Analysis in Carbon Capture and Storage Systems. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 7211-7222.	1.8	41
45	Input-output optimisation model for sustainable oil palm plantation development. <i>Sustainable Production and Consumption</i> , 2019, 17, 31-46.	5.7	40
46	A systematic methodology for optimal mixture design in an integrated biorefinery. <i>Computers and Chemical Engineering</i> , 2015, 81, 288-309.	2.0	38
47	Integration of Fuzzy Analytic Hierarchy Process into multi-objective Computer Aided Molecular Design. <i>Computers and Chemical Engineering</i> , 2018, 109, 191-202.	2.0	38
48	A hybrid optimisation model for the synthesis of sustainable gasification-based integrated biorefinery. <i>Chemical Engineering Research and Design</i> , 2012, 90, 1568-1581.	2.7	37
49	An algebraic approach to identifying bottlenecks in linear process models of multifunctional energy systems. <i>Theoretical Foundations of Chemical Engineering</i> , 2012, 46, 642-650.	0.2	37
50	A unified model of property integration for batch and continuous processes. <i>AIChE Journal</i> , 2010, 56, 1845-1858.	1.8	36
51	Disjunctive fuzzy optimisation for planning and synthesis of bioenergy-based industrial symbiosis system. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 652-664.	3.3	36
52	Optimization models for financing innovations in green energy technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 113, 109258.	8.2	36
53	Material flow cost accounting (MFCA)-based approach for prioritisation of waste recovery. <i>Journal of Cleaner Production</i> , 2015, 107, 602-614.	4.6	35
54	Optimal planning, design and synthesis of symbiotic bioenergy parks. <i>Journal of Cleaner Production</i> , 2015, 87, 291-302.	4.6	35

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55	Techno-economic evaluations for feasibility of sago-based biorefinery, Part 2: Integrated bioethanol production and energy systems. <i>Chemical Engineering Research and Design</i> , 2016, 107, 102-116.	2.7	34
56	Evolution of Water Network Using Improved Source Shift Algorithm and Water Path Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 8095-8104.	1.8	33
57	A methodology for the design of efficient resource conservation networks using adaptive swarm intelligence. <i>Journal of Cleaner Production</i> , 2008, 16, 822-832.	4.6	33
58	Conceptual Synthesis of Gasification-Based Biorefineries Using Thermodynamic Equilibrium Optimization Models. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 10681-10695.	1.8	33
59	Robust Optimization for Process Synthesis and Design of Multifunctional Energy Systems with Uncertainties. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 3196-3209.	1.8	33
60	Pinch analysis-based approach to industrial safety risk and environmental management. <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 2107-2117.	2.1	33
61	An optimization-based negotiation framework for energy systems in an eco-industrial park. <i>Journal of Cleaner Production</i> , 2016, 129, 496-507.	4.6	32
62	Synthesis and optimisation of biomass-based tri-generation systems with reliability aspects. <i>Energy</i> , 2015, 89, 803-818.	4.5	31
63	A molecular design methodology by the simultaneous optimisation of performance, safety and health aspects. <i>Chemical Engineering Science</i> , 2017, 159, 140-153.	1.9	31
64	Extension of targeting procedure for "Ultimate Flowrate Targeting with Regeneration Placement" by Ng et al., <i>Chem. Eng. Res. Des.</i> , 85 (A9): 1253-1267. <i>Chemical Engineering Research and Design</i> , 2008, 86, 1182-1186.	2.7	30
65	Process-based graphical approach for simultaneous targeting and design of water network. <i>AIChE Journal</i> , 2011, 57, 3085-3104.	1.8	30
66	Applications of process system engineering in palm-based biomass processing industry. <i>Current Opinion in Chemical Engineering</i> , 2013, 2, 448-454.	3.8	30
67	Systematic approach for conceptual design of an integrated biorefinery with uncertainties. <i>Clean Technologies and Environmental Policy</i> , 2013, 15, 783-799.	2.1	29
68	Design Operability and Retrofit Analysis (DORA) framework for energy systems. <i>Energy</i> , 2017, 134, 1038-1052.	4.5	28
69	Floating pinch method for utility targeting in heat exchanger network (HEN). <i>Chemical Engineering Research and Design</i> , 2014, 92, 119-126.	2.7	27
70	Automated targeting model for synthesis of heat exchanger network with utility systems. <i>Applied Energy</i> , 2016, 162, 1272-1281.	5.1	27
71	A Multiobjective Optimization-Based Approach for Optimal Chemical Product Design. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 17429-17444.	1.8	26
72	Heat integrated resource conservation networks without mixing prior to heat exchanger networks. <i>Journal of Cleaner Production</i> , 2014, 71, 128-138.	4.6	26

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73	Computer Aided Molecular Design for alternative sustainable solvent to extract oil from palm pressed fibre. <i>Chemical Engineering Research and Design</i> , 2017, 106, 211-223.	2.7	26
74	Synthesis of Biomass-based Trigeneration Systems with Uncertainties. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 18016-18028.	1.8	24
75	Sustainability assessment for biodiesel production via fuzzy optimisation during research and development (R&D) stage. <i>Clean Technologies and Environmental Policy</i> , 2014, 16, 1431-1444.	2.1	24
76	Synthesis of tri-generation systems: Technology selection, sizing and redundancy allocation based on operational strategy. <i>Computers and Chemical Engineering</i> , 2016, 91, 380-391.	2.0	24
77	A novel chemical product design framework with the integration of safety and health aspects. <i>Journal of Loss Prevention in the Process Industries</i> , 2016, 40, 67-80.	1.7	24
78	Novel Methodology for the Synthesis of Optimal Biochemicals in Integrated Biorefineries via Inverse Design Techniques. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 5722-5735.	1.8	23
79	Techno-economic evaluations for feasibility of sago-based biorefinery, Part 1: Alternative energy systems. <i>Chemical Engineering Research and Design</i> , 2016, 107, 263-279.	2.7	23
80	A systematic methodology for multi-objective molecular design via Analytic Hierarchy Process. <i>Chemical Engineering Research and Design</i> , 2017, 111, 663-677.	2.7	23
81	An integrated mathematical optimisation approach to synthesise and analyse a bioelectricity supply chain network. <i>Energy</i> , 2019, 178, 554-571.	4.5	23
82	Characterization of oil palm trunk biocoal and its suitability for solid fuel applications. <i>Biomass Conversion and Biorefinery</i> , 2020, 10, 45-55.	2.9	23
83	Design of Ionic Liquid as Carbon Capture Solvent for a Bioenergy System: Integration of Bioenergy and Carbon Capture Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 5241-5252.	3.2	22
84	Simultaneous design and integration of multiple processes for eco-industrial park development. <i>Journal of Cleaner Production</i> , 2021, 298, 126797.	4.6	22
85	Synthesis and design of chilled water networks using mathematical optimization. <i>Applied Thermal Engineering</i> , 2013, 58, 638-649.	3.0	21
86	Modelling and optimisation of biomass fluidised bed gasifier. <i>Applied Thermal Engineering</i> , 2013, 61, 98-105.	3.0	21
87	Systematic Framework for Sustainability Assessment of Biodiesel Production: Preliminary Engineering Stage. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 12615-12629.	1.8	20
88	Fuzzy multi-footprint optimisation (FMFO) for synthesis of a sustainable value chain: Malaysian sago industry. <i>Journal of Cleaner Production</i> , 2016, 128, 62-76.	4.6	20
89	Multi-objective expansion analysis for sustainable agro-industrial value chains based on profit, carbon and water footprint. <i>Journal of Cleaner Production</i> , 2021, 288, 125117.	4.6	20
90	A Systematic Approach for the Synthesis and Optimization of Palm Oil Milling Processes. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 2945-2955.	1.8	19

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91	Strategies to Promote Biogas Generation and Utilisation from Palm Oil Mill Effluent. Process Integration and Optimization for Sustainability, 2021, 5, 175-191.	1.4	19
92	Targeting and design of chilled water network. Applied Energy, 2014, 134, 589-599.	5.1	18
93	Heuristic framework for the debottlenecking of a palm oil-based integrated biorefinery. Chemical Engineering Research and Design, 2014, 92, 2071-2082.	2.7	17
94	Targeting for cogeneration potential and steam allocation for steam distribution network. Applied Thermal Engineering, 2017, 113, 1610-1621.	3.0	17
95	Graphical approach to minimum flowrate targeting for partitioning water pretreatment units. Chemical Engineering Research and Design, 2010, 88, 393-402.	2.7	16
96	Synthesis of Heat Integrated Resource Conservation Networks with Varying Operating Parameters. Industrial & Engineering Chemistry Research, 2013, 52, 7196-7210.	1.8	15
97	Flexibility Optimization for a Palm Oil-Based Integrated Biorefinery with Demand Uncertainties. Industrial & Engineering Chemistry Research, 2016, 55, 4035-4044.	1.8	15
98	Hybrid Approach for Optimisation and Analysis of Palm Oil Mill. Processes, 2019, 7, 100.	1.3	15
99	Integrated Approach for Simultaneous Mass and Property Integration for Resource Conservation. ACS Sustainable Chemistry and Engineering, 2013, 1, 29-38.	3.2	14
100	Life cycle optimisation (LCO) of product systems with consideration of occupational fatalities. Chemical Engineering Research and Design, 2014, 92, 390-405.	2.7	14
101	Graphical tools for production planning in small medium industries (SMIs) based on pinch analysis. Journal of Manufacturing Systems, 2014, 33, 639-646.	7.6	14
102	Robust chemical product design via fuzzy optimisation approach. Computers and Chemical Engineering, 2015, 83, 186-202.	2.0	14
103	Systematic framework for sustainability assessment on chemical production pathway: Basic engineering stage. Chemical Engineering Research and Design, 2016, 104, 161-177.	2.7	14
104	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
105	Synthesis of distributed wastewater treatment networks for one- and two-contaminant systems. Chemical Engineering Research and Design, 2013, 91, 106-119.	2.7	13
106	Design, optimisation and reliability allocation for energy systems based on equipment function and operating capacity. Heliyon, 2019, 5, e02594.	1.4	13
107	A Review of Process Systems Engineering (PSE) Tools for the Design of Ionic Liquids and Integrated Biorefineries. Processes, 2020, 8, 1678.	1.3	13
108	An approximate mixed integer linear programming (MILP) model for the design of water reuse/recycle networks with minimum energy. Asia-Pacific Journal of Chemical Engineering, 2007, 2, 566-574.	0.8	12

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109	A Systematic Approach for Optimization of an Algal Biorefinery Using Fuzzy Linear Programming. Computer Aided Chemical Engineering, 2012, , 805-809.	0.3	12
110	A systematic methodology for optimal product design in an integrated biorefinery. Computer Aided Chemical Engineering, 2013, , 91-96.	0.3	12
111	Optimal molecular design towards an environmental friendly solvent recovery process. Computers and Chemical Engineering, 2018, 117, 391-409.	2.0	12
112	Thermochemical Conversion of Napier Grass for Production of Renewable Syngas. Processes, 2019, 7, 705.	1.3	12
113	Development of inherent safety and health index for formulated product design. Journal of Loss Prevention in the Process Industries, 2020, 66, 104209.	1.7	12
114	Synthesis of wastewater treatment plant based on minimal waste generation cost: A material flow cost accounting (MFCA) approach. Chemical Engineering Research and Design, 2021, 148, 559-578.	2.7	12
115	Crisp and Fuzzy Optimisation Approaches for Water Network Retrofit. Chemical Product and Process Modeling, 2007, 2, .	0.5	11
116	Multi-objective Design of Industrial Symbiosis in Palm Oil Industry. Computer Aided Chemical Engineering, 2014, 34, 579-584.	0.3	11
117	A Systematic Molecular Design Framework with the Consideration of Competing Solvent Recovery Processes. Industrial & Engineering Chemistry Research, 2019, 58, 13210-13226.	1.8	11
118	Extended hierarchical decomposition approach for the synthesis of biorefinery processes. Chemical Engineering Research and Design, 2021, 166, 40-54.	2.7	11
119	A systematic decision analysis approach to design biomass combined heat and power systems. Chemical Engineering Research and Design, 2018, 137, 221-234.	2.7	10
120	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
121	Safety and health risk assessment methodology of dermal and inhalation exposure to formulated products ingredients. Regulatory Toxicology and Pharmacology, 2020, 116, 104753.	1.3	10
122	Life Cycle Assessment of International Biomass Utilization: A Case Study of Malaysian Palm Kernel Shells for Biomass Power Generation in Japan. Waste and Biomass Valorization, 2022, 13, 2717-2733.	1.8	10
123	Integrated Biorefineries. , 2017, , 299-314.		9
124	A Hybrid Multi-Objective Optimization Framework for Preliminary Process Design Based on Health, Safety and Environmental Impact. Processes, 2019, 7, 200.	1.3	9
125	Synthesis of resource conservation network with sink-source interaction. Clean Technologies and Environmental Policy, 2010, 12, 613-625.	2.1	8
126	Improved Ternary Diagram Approach for the Synthesis of a Resource Conservation Network with Multiple Properties. 2. Regeneration Reuse/Recycle. Industrial & Engineering Chemistry Research, 2014, 53, 17671-17679.	1.8	8

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127	Sustainability assessment framework for chemical production pathway: Uncertainty analysis. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 4878-4889.	3.3	8
128	Optimal Design and Synthesis of Sustainable Integrated Biorefinery for Pharmaceutical Products from Palm-Based Biomass. <i>Process Integration and Optimization for Sustainability</i> , 2017, 1, 135-151.	1.4	8
129	Optimal Chemical Product Design via Fuzzy Optimisation based Inverse Design Techniques. <i>Computer Aided Chemical Engineering</i> , 2014, 33, 325-330.	0.3	8
130	Property integration for resource conservation network synthesis in palm oil mills. <i>Chemical Engineering Journal</i> , 2011, 169, 207-215.	6.6	7
131	Targeting and design for batch regeneration and total networks. <i>Clean Technologies and Environmental Policy</i> , 2013, 15, 579-590.	2.1	7
132	Robust chemical product design via fuzzy optimisation approach. <i>Computer Aided Chemical Engineering</i> , 2014, 34, 387-392.	0.3	7
133	Synthesis of Resource Conservation Networks in an Integrated Pulp and Paper Biorefinery. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 10417-10428.	1.8	7
134	A fuzzy mixed-integer linear programming model for optimal design of polygeneration systems with cyclic loads. <i>Environmental Progress and Sustainable Energy</i> , 2016, 35, 1105-1112.	1.3	7
135	Prediction and optimisation of syngas production from air gasification of Napier grass via stoichiometric equilibrium model. <i>Energy Conversion and Management: X</i> , 2021, 10, 100057.	0.9	7
136	Sharing carbon permits in industrial symbiosis: A game theory-based optimisation model. <i>Journal of Cleaner Production</i> , 2022, 357, 131820.	4.6	7
137	Managing Uncertainty on the Integration of Safety and Health Indexes in Computer-Aided Molecular Design. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 10413-10427.	1.8	6
138	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
139	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
140	Fuzzy Multi-Objective Approach for Designing of Biomass Supply Chain for Polygeneration With Triple Footprint Constraints. , 2013, , .		5
141	RCNet: An optimisation software for the synthesis of resource conservation networks. <i>Chemical Engineering Research and Design</i> , 2014, 92, 917-928.	2.7	5
142	Hybrid Optimisation Model for the Synthesis of Centralised Utility System in Eco-Industrial Park. <i>Process Integration and Optimization for Sustainability</i> , 2017, 1, 33-57.	1.4	5
143	Design of alternate solvent for recovery of residual palm oil: simultaneous optimization of process performance with environmental, health and safety aspects. <i>Clean Technologies and Environmental Policy</i> , 2018, 20, 949-968.	2.1	5
144	Optimization and analysis for palm oil mill operations via input-output optimization model. <i>MATEC Web of Conferences</i> , 2019, 268, 02006.	0.1	5

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145	A Graphical Approach to Optimal Source-Sink Matching in Carbon Capture and Storage Systems with Reservoir Capacity and Injection Rate Constraints. <i>Computer Aided Chemical Engineering</i> , 2012, , 480-484.	0.3	5
146	Modular Optimization Approach for Process Synthesis and Integration of an Integrated Biorefinery. <i>Computer Aided Chemical Engineering</i> , 2012, 31, 1045-1049.	0.3	4
147	A Fuzzy Analytic Hierarchy Process Approach for Multi-objective Molecular Design Problem. <i>Computer Aided Chemical Engineering</i> , 2017, 40, 967-972.	0.3	4
148	Enhancing molecular safety and health assessment via index smoothing and prioritisation. <i>Molecular Systems Design and Engineering</i> , 2018, 3, 113-130.	1.7	4
149	Co-combustion of oil palm trunk biocoal/sub-bituminous coal fuel blends. <i>Energy Conversion and Management: X</i> , 2021, 10, 100072.	0.9	4
150	Synthesis of Heat-Integrated Resource Conservation Networks. <i>Computer Aided Chemical Engineering</i> , 2012, 31, 985-989.	0.3	3
151	Systematic Chemical Reaction Pathway Synthesis for Sustainable Integrated Biorefineries. <i>Computer Aided Chemical Engineering</i> , 2014, 34, 471-476.	0.3	3
152	Analysis of transported pollution and haze-related diseases via HYSPLIT Trajectory Modelling in the urbanized area of Johor, Malaysia. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 373, 012008.	0.2	3
153	A systematic approach for synthesis and optimisation of sustainable oil palm value chain (OPVC). <i>South African Journal of Chemical Engineering</i> , 2022, 41, 65-78.	1.2	3
154	Automated Targeting for Total Property-based Network. <i>Computer Aided Chemical Engineering</i> , 2009, 26, 1189-1195.	0.3	2
155	A hybrid optimization model for preliminary conceptual design of a sustainable integrated biorefinery with maximum economic performance. , 2011, , .		2
156	Floating Automated Targeting for Resource Conservation Networks. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 6135-6145.	1.8	2
157	The Incorporation of Safety and Health Aspects as Design Criteria in a Novel Chemical Product Design Framework. <i>Computer Aided Chemical Engineering</i> , 2016, 39, 197-220.	0.3	2
158	A Mixed Integer Linear Programming (MILP) Model for Optimal Operation of Industrial Resource Conservation Networks (RCNs) Under Abnormal Conditions. <i>Computer Aided Chemical Engineering</i> , 2017, , 607-612.	0.3	2
159	Synthesis of Refinery Hydrogen Networks with Parametric Uncertainties. <i>Computer Aided Chemical Engineering</i> , 2018, 44, 1177-1182.	0.3	2
160	A Novel Methodology for Health Hazard and Risk Assessment of Dermal and Inhalation Exposure. <i>MATEC Web of Conferences</i> , 2021, 333, 10002.	0.1	2
161	Inverse Molecular Design Techniques for Green Chemical Design in Integrated Biorefineries. <i>Processes</i> , 2021, 9, 1569.	1.3	2
162	Alternative Solvent Design for Oil Extraction from Palm Pressed Fibre via Computer-Aided Molecular Design. <i>Green Energy and Technology</i> , 2019, , 33-55.	0.4	2

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163	Cooperative Game Theory Analysis for Implementing Green Technologies in Palm Oil Milling Processes. Green Energy and Technology, 2019, , 173-190.	0.4	2
164	Evaluation of "Year 1 Assessment Week" in promoting transferable skills among first year chemical engineering students. Education for Chemical Engineers, 2013, 8, e31-e39.	2.8	1
165	Synthesis of Biomass-based Trigeneration Systems with Reliability Aspects. Computer Aided Chemical Engineering, 2015, , 2243-2248.	0.3	1
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