Denny K S Ng

List of Publications by Year
in descending order

183 papers	5,580 citations	66234 42 h-index	102304 66 g-index
195 all docs	195 docs citations	195 times ranked	3156 citing authors

#	Article	IF	Citations
1	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
2	Sharing carbon permits in industrial symbiosis: A game theory-based optimisation model. Journal of Cleaner Production, 2022, 357, 131820.	4.6	7
3	A systematic approach for synthesis and optimisation of sustainable oil palm value chain (OPVC). South African Journal of Chemical Engineering, 2022, 41, 65-78.	1.2	3
4	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
5	Prediction and optimisation of syngas production from air gasification of Napier grass via stoichiometric equilibrium model. Energy Conversion and Management: X, 2021, 10, 100057.	0.9	7
6	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
7	Extended hierarchical decomposition approach for the synthesis of biorefinery processes. Chemical Engineering Research and Design, 2021, 166, 40-54.	2.7	11
8	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
9	A Novel Methodology for Health Hazard and Risk Assessment of Dermal and Inhalation Exposure. MATEC Web of Conferences, 2021, 333, 10002.	0.1	2
10	Process Systems Engineering for Decarbonisation Strategies and Systems. Process Integration and Optimization for Sustainability, 2021, 5, 173-174.	1.4	0
11	Simultaneous design and integration of multiple processes for eco-industrial park development. Journal of Cleaner Production, 2021, 298, 126797.	4.6	22
12	Co-combustion of oil palm trunk biocoal/sub-bituminous coal fuel blends. Energy Conversion and Management: X, 2021, 10, 100072.	0.9	4
13	Inverse Molecular Design Techniques for Green Chemical Design in Integrated Biorefineries. Processes, 2021, 9, 1569.	1.3	2
14	Characterization of oil palm trunk biocoal and its suitability for solid fuel applications. Biomass Conversion and Biorefinery, 2020, 10, 45-55.	2.9	23
15	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
16	A Review of Process Systems Engineering (PSE) Tools for the Design of Ionic Liquids and Integrated Biorefineries. Processes, 2020, 8, 1678.	1.3	13
17	Optimal Design of a UF-RO Treatment System for Shale Gas Fracturing Flowback Wastewater. Industrial & Engineering Chemistry Research, 2020, 59, 5905-5920.	1.8	6
18	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

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19	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
20	Optimization models for financing innovations in green energy technologies. Renewable and Sustainable Energy Reviews, 2019, 113, 109258.	8.2	36
21	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
22	A Systematic Molecular Design Framework with the Consideration of Competing Solvent Recovery Processes. Industrial & Engineering Chemistry Research, 2019, 58, 13210-13226.	1.8	11
23	Optimization and analysis for palm oil mill operations via input-output optimization model. MATEC Web of Conferences, 2019, 268, 02006.	0.1	5
24	An integrated mathematical optimisation approach to synthesise and analyse a bioelectricity supply chain network. Energy, 2019, 178, 554-571.	4.5	23
25	Hybrid Approach for Optimisation and Analysis of Palm Oil Mill. Processes, 2019, 7, 100.	1.3	15
26	A Hybrid Multi-Objective Optimization Framework for Preliminary Process Design Based on Health, Safety and Environmental Impact. Processes, 2019, 7, 200.	1.3	9
27	A systematic molecular design framework for an environmentally benign solvent recovery process. MATEC Web of Conferences, 2019, 268, 02001.	0.1	0
28	Process System Engineering for Sustainability in Asia Pacific. Process Integration and Optimization for Sustainability, 2019, 3, 1-3.	1.4	1
29	Thermochemical Conversion of Napier Grass for Production of Renewable Syngas. Processes, 2019, 7, 705.	1.3	12
30	Design and Scheduling of Desalination System for Shale Gas Flowback Wastewater Treatment. Computer Aided Chemical Engineering, 2019, 47, 53-58.	0.3	1
31	Analysis of transported pollution and haze-related diseases via HYSPLIT Trajectory Modelling in the urbanized area of Johor, Malaysia. IOP Conference Series: Earth and Environmental Science, 2019, 373, 012008.	0.2	3
32	Design, optimisation and reliability allocation for energy systems based on equipment function and operating capacity. Heliyon, 2019, 5, e02594.	1.4	13
33	Inputâ€“output optimisation model for sustainable oil palm plantation development. Sustainable Production and Consumption, 2019, 17, 31-46.	5.7	40
34	Alternative Solvent Design for Oil Extraction from Palm Pressed Fibre via Computer-Aided Molecular Design. Green Energy and Technology, 2019, , 33-55.	0.4	2
35	Cooperative Game Theory Analysis for Implementing Green Technologies in Palm Oil Milling Processes. Green Energy and Technology, 2019, , 173-190.	0.4	2
36	Design of alternate solvent for recovery of residual palm oil: simultaneous optimization of process performance with environmental, health and safety aspects. Clean Technologies and Environmental Policy, 2018, 20, 949-968.	2.1	5

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37	Systematic Analysis for Operability and Retrofit of Energy Systems. Green Energy and Technology, 2018, , 147-166.	0.4	1
38	A Systematic Approach for the Synthesis and Optimization of Palm Oil Milling Processes. Industrial & Engineering Chemistry Research, 2018, 57, 2945-2955.	1.8	19
39	Role of bioenergy, biorefinery and bioeconomy in sustainable development: Strategic pathways for Malaysia. Renewable and Sustainable Energy Reviews, 2018, 81, 1966-1987.	8.2	120
40	Enhancing molecular safety and health assessment via index smoothing and prioritisation. Molecular Systems Design and Engineering, 2018, 3, 113-130.	1.7	4
41	Integration of Fuzzy Analytic Hierarchy Process into multi-objective Computer Aided Molecular Design. Computers and Chemical Engineering, 2018, 109, 191-202.	2.0	38
42	Synthesis of Refinery Hydrogen Networks with Parametric Uncertainties. Computer Aided Chemical Engineering, 2018, 44, 1177-1182.	0.3	2
43	Optimal molecular design towards an environmental friendly solvent recovery process. Computers and Chemical Engineering, 2018, 117, 391-409.	2.0	12
44	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
45	Guidelines for Process Safety Hazard Assessment Based on Process Information. Journal of Engineering and Technological Sciences, 2018, 50, 279-290.	0.3	0
46	A molecular design methodology by the simultaneous optimisation of performance, safety and health aspects. Chemical Engineering Science, 2017, 159, 140-153.	1.9	31
47	Computer Aided Molecular Design for alternative sustainable solvent to extract oil from palm pressed fibre. Chemical Engineering Research and Design, 2017, 106, 211-223.	2.7	26
48	Design of Ionic Liquid as Carbon Capture Solvent for a Bioenergy System: Integration of Bioenergy and Carbon Capture Systems. ACS Sustainable Chemistry and Engineering, 2017, 5, 5241-5252.	3.2	22
49	Hybrid Optimisation Model for the Synthesis of Centralised Utility System in Eco-Industrial Park. Process Integration and Optimization for Sustainability, 2017, 1, 33-57.	1.4	5
50	Design Operability and Retrofit Analysis (DORA) framework for energy systems. Energy, 2017, 134, 1038-1052.	4.5	28
51	Managing Uncertainty on the Integration of Safety and Health Indexes in Computer-Aided Molecular Design. Industrial & Engineering Chemistry Research, 2017, 56, 10413-10427.	1.8	6
52	A systematic methodology for multi-objective molecular design via Analytic Hierarchy Process. Chemical Engineering Research and Design, 2017, 111, 663-677.	2.7	23
53	Optimal Design and Synthesis of Sustainable Integrated Biorefinery for Pharmaceutical Products from Palm-Based Biomass. Process Integration and Optimization for Sustainability, 2017, 1, 135-151.	1.4	8
54	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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55	Registration of New Components. , 2017, , 23-49.		0
56	A Mixed Integer Linear Programming (MILP) Model for Optimal Operation of Industrial Resource Conservation Networks (RCNs) Under Abnormal Conditions. Computer Aided Chemical Engineering, 2017, , 607-612.	0.3	2
57	Integrated Biorefineries. , 2017, , 299-314.		9
58	A Fuzzy Analytic Hierarchy Process Approach for Multi-objective Molecular Design Problem. Computer Aided Chemical Engineering, 2017, 40, 967-972.	0.3	4
59	The Incorporation of Safety and Health Aspects as Design Criteria in a Novel Chemical Product Design Framework. Computer Aided Chemical Engineering, 2016, 39, 197-220.	0.3	2
60	Fuzzy linear programming model for the optimal design of a trigeneration plant with product price variability. , 2016, , .		0
61	Sustainability assessment framework for chemical production pathway: Uncertainty analysis. Journal of Environmental Chemical Engineering, 2016, 4, 4878-4889.	3.3	8
62	An optimization-based negotiation framework for energy systems in an eco-industrial park. Journal of Cleaner Production, 2016, 129, 496-507.	4.6	32
63	Synthesis of tri-generation systems: Technology selection, sizing and redundancy allocation based on operational strategy. Computers and Chemical Engineering, 2016, 91, 380-391.	2.0	24
64	Systematic framework for sustainability assessment on chemical production pathway: Basic engineering stage. Chemical Engineering Research and Design, 2016, 104, 161-177.	2.7	14
65	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
66	Flexibility Optimization for a Palm Oil-Based Integrated Biorefinery with Demand Uncertainties. Industrial & Engineering Chemistry Research, 2016, 55, 4035-4044.	1.8	15
67	A fuzzy mixedâ€integer linear programming model for optimal design of polygeneration systems with cyclic loads. Environmental Progress and Sustainable Energy, 2016, 35, 1105-1112.	1.3	7
68	Automated targeting model for synthesis of heat exchanger network with utility systems. Applied Energy, 2016, 162, 1272-1281.	5.1	27
69	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
70	Techno-economic evaluations for feasibility of sago-based biorefinery, Part 1: Alternative energy systems. Chemical Engineering Research and Design, 2016, 107, 263-279.	2.7	23
71	Pinch analysis-based approach to industrial safety risk and environmental management. Clean Technologies and Environmental Policy, 2016, 18, 2107-2117.	2.1	33
72	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

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73	A novel chemical product design framework with the integration of safety and health aspects. Journal of Loss Prevention in the Process Industries, 2016, 40, 67-80.	1.7	24
74	Techno-economic evaluations for feasibility of sago-based biorefinery, Part 2: Integrated bioethanol production and energy systems. Chemical Engineering Research and Design, 2016, 107, 102-116.	2.7	34
75	Systematic Framework for Sustainability Assessment of Biodiesel Production: Preliminary Engineering Stage. Industrial & Engineering Chemistry Research, 2015, 54, 12615-12629.	1.8	20
76	A systematic methodology for optimal mixture design in an integrated biorefinery. Computers and Chemical Engineering, 2015, 81, 288-309.	2.0	38
77	Material flow cost accounting (MFCA)â€“based approach for prioritisation of waste recovery. Journal of Cleaner Production, 2015, 107, 602-614.	4.6	35
78	Robust chemical product design via fuzzy optimisation approach. Computers and Chemical Engineering, 2015, 83, 186-202.	2.0	14
79	Floating Automated Targeting for Resource Conservation Networks. Industrial & Engineering Chemistry Research, 2015, 54, 6135-6145.	1.8	2
80	Synthesis of Biomass-based Trigeneration Systems with Reliability Aspects. Computer Aided Chemical Engineering, 2015, , 2243-2248.	0.3	1
81	Novel Methodology for the Synthesis of Optimal Biochemicals in Integrated Biorefineries via Inverse Design Techniques. Industrial & Engineering Chemistry Research, 2015, 54, 5722-5735.	1.8	23
82	Synthesis and optimisation of biomass-based tri-generation systems with reliability aspects. Energy, 2015, 89, 803-818.	4.5	31
83	Synthesis of sustainable integrated biorefinery via reaction pathway synthesis: Economic, incremental enviromental burden and energy assessment with multiobjective optimization. AICHE Journal, 2015, 61, 132-146.	1.8	55
84	Best practice of prefabrication implementation in the Hong Kong public and private sectors. Journal of Cleaner Production, 2015, 109, 216-231.	4.6	148
85	Optimal planning, design and synthesis of symbiotic bioenergy parks. Journal of Cleaner Production, 2015, 87, 291-302.	4.6	35
86	A Systematic Methodology for Optimal Mixture Design in an Integrated Biorefinery. Computer Aided Chemical Engineering, 2015, 37, 1205-1210.	0.3	1
87	Multi-objective Design of Industrial Symbiosis in Palm Oil Industry. Computer Aided Chemical Engineering, 2014, 34, 579-584.	0.3	11
88	Systematic Chemical Reaction Pathway Synthesis for Sustainable Integrated Biorefineries. Computer Aided Chemical Engineering, 2014, 34, 471-476.	0.3	3
89	Robust chemical product design via fuzzy optimisation approach. Computer Aided Chemical Engineering, 2014, 34, 387-392.	0.3	7
90	Synthesis of Biomass-based Trigeneration Systems with Uncertainties. Industrial & Engineering Chemistry Research, 2014, 53, 18016-18028.	1.8	24

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91	Automated Targeting Approach for Synthesis of Heat Exchanger Network (HEN) with Trigeneration System. Energy Procedia, 2014, 61, 59-62.	1.8	0
92	Life cycle optimisation (LCO) of product systems with consideration of occupational fatalities. Chemical Engineering Research and Design, 2014, 92, 390-405.	2.7	14
93	Floating pinch method for utility targeting in heat exchanger network (HEN). Chemical Engineering Research and Design, 2014, 92, 119-126.	2.7	27
94	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
95	Sustainability assessment for biodiesel production via fuzzy optimisation during research and development (R&D) stage. Clean Technologies and Environmental Policy, 2014, 16, 1431-1444.	2.1	24
96	Review of evolution, technology and sustainability assessments ofÂbiofuel production. Journal of Cleaner Production, 2014, 71, 11-29.	4.6	222
97	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
98	A Multiobjective Optimization-Based Approach for Optimal Chemical Product Design. Industrial & Engineering Chemistry Research, 2014, 53, 17429-17444.	1.8	26
99	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
100	Synthesis of Resource Conservation Networks in an Integrated Pulp and Paper Biorefinery. Industrial & Engineering Chemistry Research, 2014, 53, 10417-10428.	1.8	7
101	Targeting and design of chilled water network. Applied Energy, 2014, 134, 589-599.	5.1	18
102	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
103	Robust Optimization for Process Synthesis and Design of Multifunctional Energy Systems with Uncertainties. Industrial & Engineering Chemistry Research, 2014, 53, 3196-3209.	1.8	33
104	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
105	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
106	RCNet: An optimisation software for the synthesis of resource conservation networks. Chemical Engineering Research and Design, 2014, 92, 917-928.	2.7	5
107	Heat integrated resource conservation networks without mixing prior to heat exchanger networks. Journal of Cleaner Production, 2014, 71, 128-138.	4.6	26
108	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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109	Mixed-waste pyrolysis of biomass and plastics waste â€“ A modelling approach to reduce energy usage. Energy, 2014, 75, 127-135.	4.5	75
110	A Two-stage Optimization Approach for the Synthesis of an Integrated Pulp and Paper Biorefinery. Energy Procedia, 2014, 61, 820-823.	1.8	0
111	Optimal Chemical Product Design via Fuzzy Optimisation based Inverse Design Techniques. Computer Aided Chemical Engineering, 2014, 33, 325-330.	0.3	8
112	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
113	Optimal sourceâ€“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
114	Synthesis of Heat Integrated Resource Conservation Networks with Varying Operating Parameters. Industrial & Engineering Chemistry Research, 2013, 52, 7196-7210.	1.8	15
115	Green strategy for sustainable waste-to-energy supply chain. Energy, 2013, 57, 4-16.	4.5	85
116	Synthesis of distributed wastewater treatment networks for one- and two-contaminant systems. Chemical Engineering Research and Design, 2013, 91, 106-119.	2.7	13
117	Applications of process system engineering in palm-based biomass processing industry. Current Opinion in Chemical Engineering, 2013, 2, 448-454.	3.8	30
118	Planning of carbon capture and storage with pinch analysis techniques. Chemical Engineering Research and Design, 2013, 91, 2721-2731.	2.7	52
119	Synthesis and design of chilled water networks using mathematical optimization. Applied Thermal Engineering, 2013, 58, 638-649.	3.0	21
120	Modelling and optimisation of biomass fluidised bed gasifier. Applied Thermal Engineering, 2013, 61, 98-105.	3.0	21
121	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
122	Process synthesis and optimization of a sustainable integrated biorefinery via fuzzy optimization. AICHE Journal, 2013, 59, 4212-4227.	1.8	57
123	Systematic Approach for Synthesis of Integrated Palm Oil Processing Complex. Part 1: Single Owner. Industrial & Engineering Chemistry Research, 2013, 52, 10206-10220.	1.8	60
124	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
125	Optimal operational adjustment in multi-functional energy systems in response to process inoperability. Applied Energy, 2013, 102, 492-500.	5.1	47
126	A Graphical Approach for Pinch-Based Sourceâ€“Sink Matching and Sensitivity Analysis in Carbon Capture and Storage Systems. Industrial & Engineering Chemistry Research, 2013, 52, 7211-7222.	1.8	41

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127	Evaluation of â€œYear 1 Assessment Weekâ€•in promoting transferable skills among first year chemical engineering students. Education for Chemical Engineers, 2013, 8, e31-e39.	2.8	1
128	Targeting and design for batch regeneration and total networks. Clean Technologies and Environmental Policy, 2013, 15, 579-590.	2.1	7
129	Systematic approach for conceptual design of an integrated biorefinery with uncertainties. Clean Technologies and Environmental Policy, 2013, 15, 783-799.	2.1	29
130	Integrated Approach for Simultaneous Mass and Property Integration for Resource Conservation. ACS Sustainable Chemistry and Engineering, 2013, 1, 29-38.	3.2	14
131	Fuzzy Multi-Objective Approach for Designing of Biomass Supply Chain for Polygeneration With Triple Footprint Constraints. , 2013, , .		5
132	Process Integration for Cleaner Process Design. , 2013, , 443-460.		0
133	A systematic methodology for optimal product design in an integrated biorefinery. Computer Aided Chemical Engineering, 2013, , 91-96.	0.3	12
134	A hybrid optimisation model for the synthesis of sustainable gasification-based integrated biorefinery. Chemical Engineering Research and Design, 2012, 90, 1568-1581.	2.7	37
135	Continuous-Time Optimization Model for Sourceâ€“Sink Matching in Carbon Capture and Storage Systems. Industrial & Engineering Chemistry Research, 2012, 51, 10015-10020.	1.8	318
136	Multiple-cascade automated targeting for synthesis of a gasification-based integrated biorefinery. Journal of Cleaner Production, 2012, 34, 38-48.	4.6	41
137	Fuzzy optimisation for retrofitting a palm oil mill into a sustainable palm oil-based integrated biorefinery. Chemical Engineering Journal, 2012, 200-202, 694-709.	6.6	85
138	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
139	Simultaneous Process Synthesis, Heat and Power Integration in a Sustainable Integrated Biorefinery. Energy & Fuels, 2012, 26, 7316-7330.	2.5	46
140	Synthesis of Heat-Integrated Resource Conservation Networks. Computer Aided Chemical Engineering, 2012, 31, 985-989.	0.3	3
141	A Systematic Approach for Optimization of an Algal Biorefinery Using Fuzzy Linear Programming. Computer Aided Chemical Engineering, 2012, , 805-809.	0.3	12
142	Modular Optimization Approach for Process Synthesis and Integration of an Integrated Biorefinery. Computer Aided Chemical Engineering, 2012, 31, 1045-1049.	0.3	4
143	A Graphical Approach to Optimal Source-Sink Matching in Carbon Capture and Storage Systems with Reservoir Capacity and Injection Rate Constraints. Computer Aided Chemical Engineering, 2012, , 480-484.	0.3	5
144	Optimal Operational Adjustment in Multi-functional Energy Systems in Response to Process Inoperability. , 2012, , .		1

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145	PROCESS MODELLING AND DEBOTTLENECKING STUDY OF A VACCINE PRODUCTION. IIUM Engineering Journal, 2012, 13, .	0.5	0
146	Conceptual Synthesis of Gasification-Based Biorefineries Using Thermodynamic Equilibrium Optimization Models. Industrial & Engineering Chemistry Research, 2011, 50, 10681-10695.	1.8	33
147	Fuzzy Optimization Approach for the Synthesis of a Sustainable Integrated Biorefinery. Industrial & Engineering Chemistry Research, 2011, 50, 1652-1665.	1.8	95
148	Synthesis of an integrated biorefinery via the Câ€“Hâ€“O ternary diagram. Clean Technologies and Environmental Policy, 2011, 13, 567-579.	2.1	53
149	Synthesis of property-based resource conservation network in palm oil mills with time-varying process disturbance. Clean Technologies and Environmental Policy, 2011, 13, 625-632.	2.1	5
150	Processâ€based graphical approach for simultaneous targeting and design of water network. AICHE Journal, 2011, 57, 3085-3104.	1.8	30
151	Property integration for resource conservation network synthesis in palm oil mills. Chemical Engineering Journal, 2011, 169, 207-215.	6.6	7
152	A shortcut method for the preliminary synthesis of process-technology pathways: An optimization approach and application for the conceptual design of integrated biorefineries. Computers and Chemical Engineering, 2011, 35, 1374-1383.	2.0	110
153	A hybrid optimization model for preliminary conceptual design of a sustainable integrated biorefinery with maximum economic performance. , 2011, , .		2
154	A unified model of property integration for batch and continuous processes. AICHE Journal, 2010, 56, 1845-1858.	1.8	36
155	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
156	Synthesis of resource conservation network with sinkâ€“source interaction. Clean Technologies and Environmental Policy, 2010, 12, 613-625.	2.1	8
157	Automated targeting for the synthesis of an integrated biorefinery. Chemical Engineering Journal, 2010, 162, 67-74.	6.6	73
158	Graphical approach to minimum flowrate targeting for partitioning water pretreatment units. Chemical Engineering Research and Design, 2010, 88, 393-402.	2.7	16
159	Automated targeting technique for concentration- and property-based total resource conservation network. Computers and Chemical Engineering, 2010, 34, 825-845.	2.0	86
160	Flowrate Targeting Algorithm for Interplant Resource Conservation Network. Part 1: Unassisted Integration Scheme. Industrial & Engineering Chemistry Research, 2010, 49, 6439-6455.	1.8	49
161	Automated Targeting for Total Property-based Network. Computer Aided Chemical Engineering, 2009, 26, 1189-1195.	0.3	2
162	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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163	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
164	Automated targeting for conventional and bilateral property-based resource conservation network. Chemical Engineering Journal, 2009, 149, 87-101.	6.6	87
165	The use of graphical pinch analysis for visualizing water footprint constraints in biofuel production. Applied Energy, 2009, 86, 605-609.	5.1	76
166	Extended pinch targeting techniques for carbon-constrained energy sector planning. Applied Energy, 2009, 86, 60-67.	5.1	123
167	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
168	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
169	Automated Targeting for Total Property Network with Bilateral Constraints. , 2009, , 815-822.		0
170	Simultaneous synthesis of propertyâ€based water reuse/recycle and interception networks for batch processes. AICHE Journal, 2008, 54, 2624-2632.	1.8	49
171	A methodology for the design of efficient resource conservation networks using adaptive swarm intelligence. Journal of Cleaner Production, 2008, 16, 822-832.	4.6	33
172	Carbon and footprint-constrained energy planning using cascade analysis technique. Energy, 2008, 33, 1480-1488.	4.5	111
173	Extension of targeting procedure for â€œUltimate Flowrate Targeting with Regeneration Placementâ€•by Ng et al., Chem. Eng. Res. Des., 85 (A9): 1253â€“1267. Chemical Engineering Research and Design, 2008, 86, 1182-1186.	2.7	30
174	Synthesis of Direct and Indirect Interplant Water Network. Industrial & Engineering Chemistry Research, 2008, 47, 9485-9496.	1.8	136
175	Crisp and Fuzzy Optimisation Approaches for Water Network Retrofit. Chemical Product and Process Modeling, 2007, 2, .	0.5	11
176	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
177	Targeting for Total Water Network. 1. Waste Stream Identification. Industrial & Engineering Chemistry Research, 2007, 46, 9107-9113.	1.8	74
178	An approximate mixed integer linear programming (MILP) model for the design of water reuse/recycle networks with minimum emergy. Asia-Pacific Journal of Chemical Engineering, 2007, 2, 566-574.	0.8	12
179	Ultimate Flowrate Targeting with Regeneration Placement. Chemical Engineering Research and Design, 2007, 85, 1253-1267.	2.7	71
180	Evolution of Water Network Using Improved Source Shift Algorithm and Water Path Analysis. Industrial & Engineering Chemistry Research, 2006, 45, 8095-8104.	1.8	33

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181	Deployed Sustainable Strategies to Realize Benefits from Implementation of Energy Management Systems Across Companyâ€™s Multi Functioning Organizations. ASM Science Journal, 0, 15, 1-14.	0.2	0
182	Heuristic Framework for Sustainable Cooling Water Systems Operations in Oil Facilities. ASM Science Journal, 0, 15, 1-16.	0.2	0
183	Leading Energy Performance Indicator: Tracking of Energy Management Systems in Oil and Gas Companies. ASM Science Journal, 0, 12, 1-16.	0.2	0