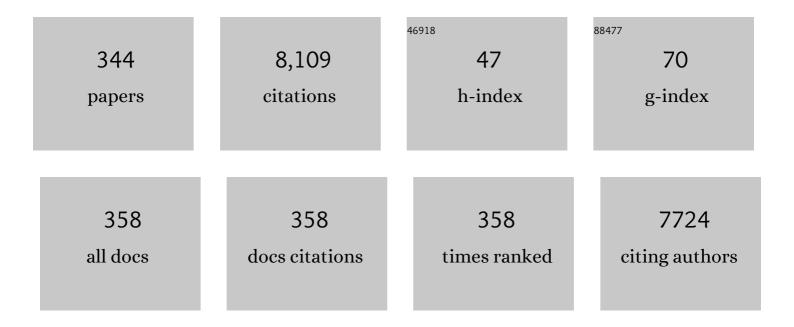
List of Publications by Year in descending order

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Διι Εικλμει

#	Article	IF	CITATIONS
1	Optimal Transition to Plug-In Hybrid Electric Vehicles in Ontario, Canada, Considering the Electricity-Grid Limitations. IEEE Transactions on Industrial Electronics, 2010, 57, 690-701.	5.2	252
2	Reservoir permeability prediction by neural networks combined with hybrid genetic algorithm and particle swarm optimization. Geophysical Prospecting, 2013, 61, 582-598.	1.0	179
3	A review of standards and guidelines set by international bodies for the parameters of indoor air quality. Atmospheric Pollution Research, 2015, 6, 751-767.	1.8	160
4	Pyrolysis, kinetics analysis, thermodynamics parameters and reaction mechanism of Typha latifolia to evaluate its bioenergy potential. Bioresource Technology, 2017, 245, 491-501.	4.8	156
5	Asphaltene precipitation and deposition in oil reservoirs – Technical aspects, experimental and hybrid neural network predictive tools. Chemical Engineering Research and Design, 2014, 92, 857-875.	2.7	146
6	Benchmarking and selection of Power-to-Gas utilizing electrolytic hydrogen as an energy storage alternative. International Journal of Hydrogen Energy, 2016, 41, 7717-7731.	3.8	144
7	Modeling and optimization of a network of energy hubs to improve economic and emission considerations. Energy, 2015, 93, 2546-2558.	4.5	143
8	Design and experimental investigation of portable solar thermoelectric refrigerator. Renewable Energy, 2009, 34, 30-34.	4.3	131
9	A Robust Optimization Approach for Planning the Transition to Plug-in Hybrid Electric Vehicles. IEEE Transactions on Power Systems, 2011, 26, 2264-2274.	4.6	131
10	Plug-in electric vehicle batteries degradation modeling for smart grid studies: Review, assessment and conceptual framework. Renewable and Sustainable Energy Reviews, 2018, 81, 2609-2624.	8.2	119
11	The Influence of Temperature, Pressure, Salinity, and Surfactant Concentration on the Interfacial Tension of the N-Octane-Water System. Chemical Engineering Communications, 2005, 192, 667-684.	1.5	107
12	Cost-Benefit Analysis of V2G Implementation in Distribution Networks Considering PEVs Battery Degradation. IEEE Transactions on Sustainable Energy, 2018, 9, 961-970.	5.9	104
13	Deep Learning-Based Forecasting Approach in Smart Grids With Microclustering and Bidirectional LSTM Network. IEEE Transactions on Industrial Electronics, 2021, 68, 8298-8309.	5.2	104
14	Risk-Averse Optimal Bidding of Electric Vehicles and Energy Storage Aggregator in Day-Ahead Frequency Regulation Market. IEEE Transactions on Power Systems, 2019, 34, 2036-2047.	4.6	103
15	Mixed integer linear programing based approach for optimalÂplanning and operation of a smart urban energy networkÂto support the hydrogen economy. International Journal of Hydrogen Energy, 2016, 41, 7700-7716.	3.8	99
16	Optimization Model for Energy Planning with CO2Emission Considerations. Industrial & Engineering Chemistry Research, 2005, 44, 879-890.	1.8	93
17	A Review on Plug-in Electric Vehicles: Introduction, Current Status, and Load Modeling Techniques. Journal of Modern Power Systems and Clean Energy, 2020, 8, 412-425.	3.3	93
18	Electricity demand estimation using an adaptive neuro-fuzzy network: A case study from the Ontario province – Canada. Energy, 2013, 49, 323-328.	4.5	91

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19	A robust distributed model predictive control algorithm. Journal of Process Control, 2011, 21, 1127-1137.	1.7	90
20	A new correlation for predicting hydrate formation conditions for various gas mixtures and inhibitors. Fluid Phase Equilibria, 1998, 152, 23-42.	1.4	87
21	A Novel Electricity Price Forecasting Approach Based on Dimension Reduction Strategy and Rough Artificial Neural Networks. IEEE Transactions on Industrial Informatics, 2020, 16, 2369-2381.	7.2	83
22	Optimal tuning of PID controllers for FOPTD, SOPTD and SOPTD with lead processes. Chemical Engineering and Processing: Process Intensification, 2008, 47, 251-264.	1.8	74
23	Use of a novel surfactant for improving the transportability/transportation of heavy/viscous crude oils. Journal of Petroleum Science and Engineering, 2004, 42, 235-243.	2.1	71
24	A multi-period optimization model for energy planning with CO2 emission consideration. Journal of Environmental Management, 2010, 91, 1063-1070.	3.8	69
25	Sustainability indicators for decision-making and optimisation in the process industry: The case of the petrochemical industry. Chemical Engineering Science, 2010, 65, 1452-1461.	1.9	67
26	Dimensional Analysis and Scale-up of Immiscible Two-Phase Flow Displacement in Fractured Porous Media under Controlled Gravity Drainage. Energy & Fuels, 2011, 25, 1731-1750.	2.5	67
27	Computational Fluid Dynamics Modeling of Biomass Gasification in Circulating Fluidized-Bed Reactor Using the Eulerian–Eulerian Approach. Industrial & Engineering Chemistry Research, 2013, 52, 18162-18174.	1.8	64
28	Integration of renewable energy sources into combined cycle power plants through electrolysis generated hydrogen in a new designed energy hub. International Journal of Hydrogen Energy, 2016, 41, 16718-16728.	3.8	63
29	Two-stage stochastic programming with fixed recourse via scenario planning with economic and operational risk management for petroleum refinery planning under uncertainty. Chemical Engineering and Processing: Process Intensification, 2008, 47, 1744-1764.	1.8	62
30	Visible-solar-light-driven photo-reduction and removal of cadmium ion with Eosin Y-sensitized TiO2 in aqueous solution of triethanolamine. Separation and Purification Technology, 2017, 174, 109-115.	3.9	62
31	Supercritical CO2 extraction of nimbin from neem seeds––a modelling study. Journal of Food Engineering, 2005, 71, 331-340.	2.7	61
32	Optimal sizing of an electrolytic hydrogen production system using an existing natural gas infrastructure. International Journal of Hydrogen Energy, 2015, 40, 9760-9772.	3.8	60
33	Optimal processing route for the utilization and conversion of municipal solid waste into energy and valuable products. Journal of Cleaner Production, 2018, 174, 857-867.	4.6	57
34	Investigation of pyrolysis kinetics and thermal behavior of Invasive Reed Canary (Phalaris) Tj ETQq0 0 0 rgBT /0	Overlock 10	Tf <u>50</u> 142 Td
35	Review of current technologies used in municipal solid waste-to-energy facilities in Canada. Clean Technologies and Environmental Policy, 2015, 17, 1837-1846.	2.1	56

36An Optimization Approach for Integrating Planning and CO<sub>2</sub> Emission Reduction in the<br/>Petroleum Refining Industry. Industrial & amp; Engineering Chemistry Research, 2008, 47, 760-776.1.855

#	Article	IF	CITATIONS
37	Assessing energy performance of bio-based succinic acid production using LCA. Journal of Cleaner Production, 2016, 139, 761-769.	4.6	55
38	Simulation and optimization of natural gas processing and production network consisting of LNG, GTL, and methanol facilities. Journal of Natural Gas Science and Engineering, 2015, 23, 500-508.	2.1	54
39	Two-layer optimization methodology for wind distributed generation planning considering plug-in electric vehicles uncertainty: A flexible active-reactive power approach. Energy Conversion and Management, 2016, 124, 231-246.	4.4	53
40	Analysis of Ontario's hydrogen economy demands from hydrogen fuel cell vehicles. International Journal of Hydrogen Energy, 2012, 37, 8905-8916.	3.8	52
41	Modeling the Energy Demands and Greenhouse Gas Emissions of the Canadian Oil Sands Industry. Energy & Fuels, 2007, 21, 2098-2111.	2.5	51
42	Scaling Miscible Fluid Displacements in Porous Media. Energy & Fuels, 1998, 12, 801-811.	2.5	50
43	Selection of control structure for distributed model predictive control in the presence of model errors. Journal of Process Control, 2010, 20, 270-284.	1.7	50
44	Utilization of support vector machine to calculate gas compressibility factor. Fluid Phase Equilibria, 2013, 358, 189-202.	1.4	50
45	Optimization of the performance of a double-chamber microbial fuel cell through factorial design of experiments and response surface methodology. Fuel, 2015, 150, 434-440.	3.4	50
46	A model of nanofluids effective thermal conductivity based on dimensionless groups. Journal of Thermal Analysis and Calorimetry, 2009, 96, 81-84.	2.0	49
47	A nonlinear programming model for refinery planning and optimisation with rigorous process models and product quality specifications. International Journal of Oil, Gas and Coal Technology, 2008, 1, 283.	0.1	48
48	Global Optimization of Reverse Osmosis Network for Wastewater Treatment and Minimization. Industrial & Engineering Chemistry Research, 2008, 47, 3060-3070.	1.8	48
49	Design of an energy hub based on natural gas and renewable energy sources. International Journal of Energy Research, 2014, 38, 363-373.	2.2	48
50	Estimation of breakthrough time for water coning in fractured systems: Experimental study and connectionist modeling. AICHE Journal, 2014, 60, 1905-1919.	1.8	48
51	Multi-products productions from Malaysian oil palm empty fruit bunch (EFB): Analyzing economic potentials from the optimal biomass supply chain. Journal of Cleaner Production, 2017, 168, 131-148.	4.6	48
52	Multi-objective Optimization for Design and Operation of Distributed Energy Systems through the Multi-energy Hub Network Approach. Industrial & Engineering Chemistry Research, 2016, 55, 8950-8966.	1.8	43
53	Heuristic algorithm for scheduling batch and semi-continuous plants with production deadlines, intermediate storage limitations and equipment changeover costs. Computers and Chemical Engineering, 1994, 18, 859-875.	2.0	42
54	Optimal probabilistic based storage planning in tap-changer equipped distribution network including PEVs, capacitor banks and WDGs: A case study for Iran. Energy, 2016, 112, 984-997.	4.5	42

#	Article	IF	CITATIONS
55	Robust multi-objective thermal and electrical energy hub management integrating hybrid battery-compressed air energy storage systems and plug-in-electric-vehicle-based demand response. Journal of Energy Storage, 2021, 35, 102265.	3.9	42
56	Stochastic SCUC considering compressed air energy storage and wind power generation: A techno-economic approach with static voltage stability analysis. International Journal of Electrical Power and Energy Systems, 2018, 100, 489-507.	3.3	41
57	Planning an Integrated Petrochemical Industry with an Environmental Objective. Industrial & Engineering Chemistry Research, 2001, 40, 2103-2111.	1.8	40
58	Robust planning of multisite refinery networks: Optimization under uncertainty. Computers and Chemical Engineering, 2010, 34, 985-995.	2.0	40
59	A hybrid kinetic and optimization approach for biomass pyrolysis: The hybrid scheme of the isoconversional methods, DAEM, and a parallel-reaction mechanism. Energy Conversion and Management, 2020, 208, 112531.	4.4	38
60	Thermo-kinetic study to elucidate the bioenergy potential of Maple Leaf Waste (MLW) by pyrolysis, TGA and kinetic modelling. Fuel, 2021, 293, 120349.	3.4	38
61	Optimization of Photovoltaic Electrolyzer Hybrid systems; taking into account the effect of climate conditions. Energy Conversion and Management, 2016, 118, 438-449.	4.4	37
62	Two-stage stochastic home energy management strategy considering electric vehicle and battery energy storage system: An ANN-based scenario generation methodology. Sustainable Energy Technologies and Assessments, 2020, 39, 100722.	1.7	37
63	Experimental investigation of crude oil desalting and dehydration. Chemical Engineering Communications, 2003, 190, 65-82.	1.5	36
64	Multisite facility network integration design and coordination: An application to the refining industry. Computers and Chemical Engineering, 2008, 32, 2189-2202.	2.0	36
65	Energy Hub Based on Nuclear Energy and Hydrogen Energy Storage. Industrial & Engineering Chemistry Research, 2013, 52, 7470-7481.	1.8	36
66	A reinforcement learning approach for waterflooding optimization in petroleum reservoirs. Engineering Applications of Artificial Intelligence, 2019, 77, 98-116.	4.3	36
67	Enhanced protective properties and UV stability of epoxy/graphene nanocomposite coating on stainless steel. EXPRESS Polymer Letters, 2016, 10, 1034-1046.	1.1	36
68	An artificial neural network for the prediction of immiscible flood performance. Energy & Fuels, 1995, 9, 894-900.	2.5	35
69	Practical and Economic Aspects of the Ex-Situ Process: Implications for CO <sub>2</sub> Sequestration. Energy & Fuels, 2013, 27, 401-413.	2.5	35
70	Enabling utility-scale electrical energy storage by a power-to-gas energy hub and underground storage of hydrogen and natural gas. Journal of Natural Gas Science and Engineering, 2016, 35, 1180-1199.	2.1	35
71	Corrosion inhibition of copper in sodium chloride solution using polyetherimide/graphene composites. Canadian Journal of Chemical Engineering, 2016, 94, 896-904.	0.9	35
72	MODELING THE HYDROCRACKING PROCESS USING ARTIFICIAL NEURAL NETWORKS. Petroleum Science and Technology, 1999, 17, 931-954.	0.7	34

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73	Energy Optimization Model with CO <sub>2</sub> -Emission Constraints for the Canadian Oil Sands Industry. Energy & Fuels, 2008, 22, 2660-2670.	2.5	34
74	A modeling study of the effect of carbon dioxide mitigation strategies, natural gas prices and steam consumption on the Canadian Oil Sands operations. Energy, 2012, 45, 1018-1033.	4.5	33
75	Development of a pricing mechanism for valuing ancillary, transportation and environmental services offered by a power to gas energy system. Energy, 2017, 128, 447-462.	4.5	33
76	Modeling and Optimization of Energy Hubs: A Comprehensive Review. Inventions, 2019, 4, 50.	1.3	33
77	Stochastic energy management of an electricity retailer with a novel plug-in electric vehicle-based demand response program and energy storage system: A linearized battery degradation cost model. Sustainable Cities and Society, 2021, 74, 103154.	5.1	33
78	Optimal design of reverse-osmosis networks for wastewater treatment. Chemical Engineering and Processing: Process Intensification, 2008, 47, 2163-2174.	1.8	32
79	Financial risk management for new technology integration in energy planning under uncertainty. Applied Energy, 2014, 128, 75-81.	5.1	31
80	Effect of light spectrum on isolation of microalgae from urban wastewater and growth characteristics of subsequent cultivation of the isolated species. Algal Research, 2018, 29, 154-158.	2.4	31
81	Optimal Hydrate Inhibition Policies with the Aid of Neural Networks. Energy & Fuels, 1999, 13, 105-113.	2.5	30
82	Optimal WDG planning in active distribution networks based on possibilistic–probabilistic PEVs load modelling. IET Generation, Transmission and Distribution, 2017, 11, 865-875.	1.4	30
83	Optimization methods for petroleum fields development and production systems: a review. Optimization and Engineering, 2017, 18, 907-941.	1.3	30
84	Solar-aided hydrogen production methods for the integration of renewable energies into oil & gas industries. Energy Conversion and Management, 2018, 168, 395-406.	4.4	30
85	Dual network extraction algorithm to investigate multiple transport processes in porous materials: Image-based modeling of pore and grain scale processes. Computers and Chemical Engineering, 2019, 123, 64-77.	2.0	30
86	Optimal energy hub development to supply heating, cooling, electricity and freshwater for a coastal urban area taking into account economic and environmental factors. Energy, 2022, 238, 121743.	4.5	30
87	Integration of hydrogen management in refinery planning with rigorous process models and product quality specifications. International Journal of Process Systems Engineering, 2011, 1, 302.	0.2	29
88	An Improved Hybrid Particle Swarm Optimization and Tabu Search Algorithm for Expansion Planning of Large Dimension Electric Distribution Network. Energies, 2019, 12, 3052.	1.6	29
89	A heuristic optimization approach for Air Quality Monitoring Network design with the simultaneous consideration of multiple pollutants. Journal of Environmental Management, 2008, 88, 507-516.	3.8	28
90	Multisite Refinery and Petrochemical Network Design: Optimal Integration and Coordination. Industrial & Engineering Chemistry Research, 2009, 48, 814-826.	1.8	28

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91	Optimal design of split partial second pass reverse osmosis network for desalination applications. AICHE Journal, 2014, 60, 520-532.	1.8	28
92	Tailoring the chemistry of blend copolymers boosting the electrochemical performance of Si-based anodes for lithium ion batteries. Journal of Materials Chemistry A, 2017, 5, 24159-24167.	5.2	28
93	A machine learning approach for modeling and optimization of a CO2 post-combustion capture unit. Energy, 2021, 215, 119113.	4.5	28
94	An artificial neural network for predicting and optimizing immiscible flood performance in heterogeneous reservoirs. Computers and Chemical Engineering, 1998, 22, 1699-1709.	2.0	27
95	THE ACCURACY OF PREDICTING COMPRESSIBILITY FACTOR FOR SOUR NATURAL GASES. Petroleum Science and Technology, 2001, 19, 711-731.	0.7	27
96	Modelling and optimization of a multistage flash desalination process. Engineering Optimization, 2005, 37, 591-607.	1.5	27
97	A multi-period optimization model for energy planning with CO2 emission considerations. Energy Procedia, 2009, 1, 4339-4346.	1.8	27
98	Connectionist Model to Estimate Performance of Steam-Assisted Gravity Drainage in Fractured and Unfractured Petroleum Reservoirs: Enhanced Oil Recovery Implications. Industrial & Engineering Chemistry Research, 2014, 53, 1645-1662.	1.8	27
99	An optimization model for air pollution control decision making. Environmental Modelling and Software, 1997, 12, 51-58.	1.9	26
100	A ROLLING HORIZON HEURISTIC FOR REACTIVE SCHEDULING OF BATCH PROCESS OPERATIONS. Engineering Optimization, 1999, 31, 763-792.	1.5	26
101	A Computational Intelligence Based Approach for the Analysis and Optimization of a Crude Oil Desalting and Dehydration Process. Energy & Fuels, 2005, 19, 2526-2534.	2.5	26
102	Shared and practical approach to conserve utilities in eco-industrial parks. Computers and Chemical Engineering, 2016, 93, 221-233.	2.0	26
103	Energy infrastructure modeling for the oil sands industry: Current situation. Applied Energy, 2016, 181, 435-445.	5.1	26
104	A Stochastic Programming Approach for the Planning and Operation of a Power to Gas Energy Hub with Multiple Energy Recovery Pathways. Energies, 2017, 10, 868.	1.6	26
105	A statistical mechanics approach to the separation of methane and nitrogen using capillary condensation in a microporous membrane. Journal of Membrane Science, 1992, 65, 163-172.	4.1	25
106	Presenting the implementation of power-to-gas to an oil refinery as a way to reduce carbon intensity of petroleum fuels. International Journal of Hydrogen Energy, 2017, 42, 19376-19388.	3.8	25
107	A modified DAEM: To study the bioenergy potential of invasive Staghorn Sumac through pyrolysis, ANN, TGA, kinetic modeling, FTIR and GC–MS analysis. Energy Conversion and Management, 2020, 221, 113173.	4.4	25
108	Long-term electricity demand forecasting for power system planning using economic, demographic and climatic variables. European Journal of Industrial Engineering, 2009, 3, 277.	0.5	24

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109	Optimization of energy usage for fleetâ€wide power generating system under carbon mitigation options. AICHE Journal, 2009, 55, 3168-3190.	1.8	24
110	Dynamic Optimization of Lurgi Type Methanol Reactor Using Hybrid GA-GPS Algorithm: The Optimal Shell Temperature Trajectory and Carbon Dioxide Utilization. Industrial & Engineering Chemistry Research, 2016, 55, 1164-1173.	1.8	24
111	Air quality and environmental impacts of alternative vehicle technologies in Ontario, Canada. International Journal of Hydrogen Energy, 2010, 35, 5145-5153.	3.8	23
112	A robust distributed model predictive control based on a dual-mode approach. Computers and Chemical Engineering, 2013, 50, 130-138.	2.0	23
113	Machine Learning Based PEVs Load Extraction and Analysis. Electronics (Switzerland), 2020, 9, 1150.	1.8	23
114	Modelling pressure distribution in a rectangular gas bearing using neural networks. Tribology International, 1997, 30, 139-150.	3.0	22
115	Building inferential estimators for modeling product quality in a crude oil desalting and dehydration process. Chemical Engineering and Processing: Process Intensification, 2006, 45, 568-577.	1.8	22
116	Development of a minimal defined medium for recombinant human interleukinâ€3 production by <i>Streptomyces lividans 66</i> . Biotechnology and Bioengineering, 2008, 99, 214-222.	1.7	22
117	Petroleum refinery operational planning using robust optimization. Engineering Optimization, 2010, 42, 1119-1131.	1.5	22
118	Integrated Energy Optimization Model for Oil Sands Operations. Industrial & Engineering Chemistry Research, 2011, 50, 12641-12663.	1.8	22
119	New tools to determine bubble point pressure of crude oils: Experimental and modeling study. Journal of Petroleum Science and Engineering, 2014, 123, 207-216.	2.1	22
120	A dual approach for modelling and optimisation of industrial urea reactor: Smart technique and grey box model. Canadian Journal of Chemical Engineering, 2014, 92, 469-485.	0.9	22
121	Experimental and Numerical Modeling Study of Gravity Drainage Considering Asphaltene Deposition. Industrial & Engineering Chemistry Research, 2014, 53, 11512-11526.	1.8	21
122	Effect of socio-economic factors on EV/HEV/PHEV adoption rate in Ontario. Technological Forecasting and Social Change, 2015, 98, 93-104.	6.2	21
123	Retrofit Design of Hydrogen Network in Refineries: Mathematical Model and Global Optimization. Industrial & Engineering Chemistry Research, 2018, 57, 4996-5023.	1.8	21
124	How can the integration of renewable energy and power-to-gas benefit industrial facilities? From techno-economic, policy, and environmental assessment. International Journal of Hydrogen Energy, 2020, 45, 26559-26573.	3.8	21
125	Tactical and Operational Planning of Multirefinery Networks under Uncertainty: An Iterative Integration Approach. Industrial & Engineering Chemistry Research, 2013, 52, 8507-8517.	1.8	20
126	New simple indices for risk assessment and hazards reduction at the conceptual design stage of a chemical process. Chemical Engineering Science, 2014, 119, 218-229.	1.9	20

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127	New sustainability indices for product design employing environmental impact and risk reduction: case study on gasoline blends. Journal of Cleaner Production, 2015, 108, 312-320.	4.6	20
128	Generalized mixed-integer nonlinear programming modeling of eco-industrial networks to reduce cost and emissions. Journal of Cleaner Production, 2015, 99, 160-176.	4.6	20
129	Development and techno-economic analysis of an integrated petroleum coke, biomass, and natural gas polygeneration process. Energy, 2016, 113, 861-874.	4.5	20
130	Economic model predictive control of chemical processes with parameter uncertainty. Computers and Chemical Engineering, 2016, 95, 10-20.	2.0	20
131	Superstructure optimization for the synthesis of chemical process flowsheets: Application to optimal hybrid membrane systems. Engineering Optimization, 2009, 41, 327-350.	1.5	19
132	Stochastic Modeling of the Oil Sands Operations under Greenhouse Gas Emission Restrictions and Water Management. Energy & Fuels, 2013, 27, 5559-5578.	2.5	19
133	An Improved Air Quality Index Machine Learning-Based Forecasting with Multivariate Data Imputation Approach. Atmosphere, 2022, 13, 1144.	1.0	19
134	Robust distributed model predictive control: A review and recent developments. Canadian Journal of Chemical Engineering, 2011, 89, 1176-1190.	0.9	18
135	Cost-analysis of health impacts associated with emissions from combined cycle power plant. Journal of Cleaner Production, 2016, 139, 1408-1424.	4.6	18
136	An order-specific clustering algorithm for the determination of representative demand curves. Computers and Chemical Engineering, 2008, 32, 1365-1372.	2.0	17
137	Robust Optimization for Petrochemical Network Design under Uncertainty. Industrial & Engineering Chemistry Research, 2008, 47, 3912-3919.	1.8	17
138	Non-linear feedback modeling and bifurcation of the acetylcholine neurocycle and its relation to Alzheimer's and Parkinson's diseases. Chemical Engineering Science, 2009, 64, 69-90.	1.9	17
139	Literature review of oil refineries planning under uncertainty. International Journal of Oil, Gas and Coal Technology, 2011, 4, 156.	0.1	17
140	OVERALL INTEGRATION OF THE MANAGEMENT OF H2AND CO2WITHIN REFINERY PLANNING USING RIGOROUS PROCESS MODELS. Chemical Engineering Communications, 2013, 200, 139-161.	1.5	17
141	Recovery Rate of Vapor Extraction in Heavy Oil Reservoirs—Experimental, Statistical, and Modeling Studies. Industrial & Engineering Chemistry Research, 2014, 53, 16091-16106.	1.8	17
142	A model-based approach for biomass-to-bioproducts supply Chain network planning optimization. Food and Bioproducts Processing, 2019, 118, 293-305.	1.8	17
143	Optimal Charging of Plug-In Electric Vehicle: Considering Travel Behavior Uncertainties and Battery Degradation. Applied Sciences (Switzerland), 2019, 9, 3420.	1.3	17
144	Engineering investigation for the size effect of graphene oxide derived from graphene nanoplatelets in polyurethane composites. Canadian Journal of Chemical Engineering, 2020, 98, 1084-1096.	0.9	17

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145	Probing the Structure-Performance Relationship of Lithium-Ion Battery Cathodes Using Pore-Networks Extracted from Three-Phase Tomograms. Journal of the Electrochemical Society, 2020, 167, 040528.	1.3	17
146	Development of ï€â€"ï€ Interaction-Induced Functionalized Graphene Oxide on Mechanical and Anticorrosive Properties of Reinforced Polyurethane Composites. Industrial & Engineering Chemistry Research, 2020, 59, 3617-3628.	1.8	17
147	Optimal renewable energy integration into the process industry using multi-energy hub approach with economic and environmental considerations: Refinery-wide case study. Computers and Chemical Engineering, 2021, 151, 107345.	2.0	17
148	Strategic Planning of Integrated Multirefinery Networks: A Robust Optimization Approach Based on the Degree of Conservatism. Industrial & Engineering Chemistry Research, 2010, 49, 9970-9977.	1.8	16
149	Prediction of isoflavone extraction from soybean meal using supercritical carbon dioxide with cosolvents. Chemical Engineering Journal, 2011, 172, 1023-1032.	6.6	16
150	Sustainable convergence of electricity and transport sectors in the context of a hydrogen economy. International Journal of Hydrogen Energy, 2011, 36, 6357-6375.	3.8	16
151	A multiobjective optimization framework for sustainable design of municipal solid waste processing pathways to energy and materials. International Journal of Energy Research, 2020, 44, 771-783.	2.2	16
152	Techno-economic evaluation of PEVs energy storage capability in wind distributed generations planning. Sustainable Cities and Society, 2020, 56, 102117.	5.1	16
153	Renewable agricultural fibers as reinforcing fillers in plastics. Journal of Thermal Analysis and Calorimetry, 2009, 96, 85-90.	2.0	15
154	CHAPTER 2. Photocatalytic Processes for the Removal of Toxic Metal Ions. , 2014, , 25-43.		15
155	Modeling the Interaction between <i>β</i> -Amyloid Aggregates and Choline Acetyltransferase Activity and Its Relation with Cholinergic Dysfunction through Two-Enzyme/Two-Compartment Model. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-20.	0.7	15
156	New technology integration approach for energy planning with carbon emission considerations. Energy Conversion and Management, 2015, 95, 170-180.	4.4	15
157	Dynamic and perturbative system analysis of granular material in a vibrating screen. Advanced Powder Technology, 2017, 28, 3257-3264.	2.0	15
158	The thermal conductivities enhancement of mono ethylene glycol and paraffin fluids by adding β-SiC nanoparticles. Journal of Thermal Analysis and Calorimetry, 2010, 101, 113-118.	2.0	14
159	Control vector optimization and genetic algorithms for mixed-integer dynamic optimization in the synthesis of rice drying processes. Journal of the Franklin Institute, 2011, 348, 1318-1338.	1.9	14
160	Optimal integration of nuclear energy and water management into the oil sands operations. AICHE Journal, 2012, 58, 3433-3453.	1.8	14
161	Optimisation of petroleum refinery water network systems retrofit incorporating reuse, regeneration and recycle strategies. Canadian Journal of Chemical Engineering, 2012, 90, 137-143.	0.9	14
162	Effects of meteorological conditions on the concentration and dispersion of an accidental release of H2S in Canada. Atmospheric Environment, 2014, 82, 316-326.	1.9	14

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163	A Surrogateâ€Based Optimization Methodology for the Optimal Design of an Air Quality Monitoring Network. Canadian Journal of Chemical Engineering, 2015, 93, 1176-1187.	0.9	14
164	A system dynamics model for optimal allocation of natural gas to various demand sectors. Computers and Chemical Engineering, 2019, 128, 88-105.	2.0	14
165	Three pseudo-components kinetic modeling and nonlinear dynamic optimization of Rhus Typhina pyrolysis with the distributed activation energy model. Applied Thermal Engineering, 2019, 157, 113633.	3.0	14
166	PEVs data mining based on factor analysis method for energy storage and DG planning in active distribution network: Introducing S2S effect. Energy, 2019, 175, 265-277.	4.5	14
167	Municipality solid waste supply chain optimization to power production under uncertainty. Computers and Chemical Engineering, 2019, 121, 338-353.	2.0	14
168	Compressibility Factor for Sour Gas Reservoirs. , 2000, , .		13
169	AN OPTIMAL EXTENDED KALMAN FILTER DESIGNED BY GENETIC ALGORITHMS. Chemical Engineering Communications, 2008, 196, 602-615.	1.5	13
170	Structured Mathematical Modeling, Bifurcation, and Simulation for the Bioethanol Fermentation Process Using <i>Zymomonas mobilis</i> . Industrial & Engineering Chemistry Research, 2014, 53, 5954-5972.	1.8	13
171	An overview on synthesis and design of microalgal biorefinery configurations by employing superstructure-based optimization approach. Energy Systems, 2019, 10, 941-966.	1.8	13
172	Efficient extraction of pore networks from massive tomograms via geometric domain decomposition. Advances in Water Resources, 2020, 145, 103734.	1.7	13
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