

Ali Elkamel

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/9578125/ali-elkamel-publications-by-year.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

338
papers

5,933
citations

41
h-index

59
g-index

358
ext. papers

7,087
ext. citations

4.3
avg, IF

6.3
L-index

#	Paper	IF	Citations
338	Optimal energy hub development to supply heating, cooling, electricity and freshwater for a coastal urban area taking into account economic and environmental factors. <i>Energy</i> , 2022 , 238, 121743	7.9	7
337	The Investigation of Monthly/Seasonal Data Clustering Impact on Short-Term Electricity Price Forecasting Accuracy: Ontario Province Case Study. <i>Sustainability</i> , 2022 , 14, 3063	3.6	1
336	Optimization Model for Sustainable End-of-Life Vehicle Processing and Recycling. <i>Sustainability</i> , 2022 , 14, 3551	3.6	3
335	Introduction to Hazardous Waste Management and Control 2022 , 1-26		
334	Hazardous Waste Transport in the Environment 2022 , 273-295		0
333	Thermo-kinetic study to explicate the bioenergy potential of Holy Thistle (HT). <i>Energy Conversion and Management: X</i> , 2021 , 13, 100147	2.5	0
332	Multiscale Decision-Making for Enterprise-Wide Operations Incorporating Clustering of High-Dimensional Attributes and Big Data Analytics: Applications to Energy Hub. <i>Energies</i> , 2021 , 14, 6682	3.1	2
331	Sustainable optimization of waste management network over extended planning time horizon. <i>AIChE Journal</i> , 2021 , 67, e17256	3.6	1
330	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. <i>Journal of Energy Storage</i> , 2021 , 35, 102265	7.8	17
329	An Economic, Environmental and Safety Analysis of Using Hydrogen Enriched Natural Gas (HENG) in Industrial Facilities. <i>Energies</i> , 2021 , 14, 2445	3.1	
328	Thermo-kinetic study to elucidate the bioenergy potential of Maple Leaf Waste (MLW) by pyrolysis, TGA and kinetic modelling. <i>Fuel</i> , 2021 , 293, 120349	7.1	13
327	An integrated electric vehicle network planning with economic and ecological assessment: Application to the incipient middle Eastern market in transition towards sustainability. <i>Journal of Cleaner Production</i> , 2021 , 302, 126980	10.3	2
326	Pore Network Modelling of Galvanostatic Discharge Behaviour of Lithium-Ion Battery Cathodes. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 070534	3.9	1
325	. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 8298-8309	8.9	32
324	A machine learning approach for modeling and optimization of a CO ₂ post-combustion capture unit. <i>Energy</i> , 2021 , 215, 119113	7.9	4
323	Combining design of experiments, machine learning, and principal component analysis for predicting energy consumption and product quality of a natural gas processing plant. <i>International Journal of Energy Research</i> , 2021 , 45, 5974-5987	4.5	0
322	Compartmental modeling and analysis of the effect of β -amyloid on acetylcholine neurocycle via choline leakage hypothesis. <i>Computers and Chemical Engineering</i> , 2021 , 145, 107165	4	

321	Chaos synchronization of brushes direct current motors for electric vehicle: Adaptive fuzzy immersion and invariance approach. <i>Transactions of the Institute of Measurement and Control</i> , 2021 , 43, 178-193	1.8	3
320	Optimal renewable energy integration into the process industry using multi-energy hub approach with economic and environmental considerations: Refinery-wide case study. <i>Computers and Chemical Engineering</i> , 2021 , 151, 107345	4	6
319	Optimum Maintenance Interval Determination for Field Instrument Devices in Oil and Gas Industries Based on Expected Utility Theory. <i>Computers and Chemical Engineering</i> , 2021 , 152, 107362	4	0
318	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. <i>Sustainable Cities and Society</i> , 2021 , 74, 103154	10.1	13
317	Thermally Constrained Conceptual Deep Geological Repository Design under Spacing and Placing Uncertainties. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 11874	2.6	1
316	Sustainable management and design of the energy-water-food nexus using a mathematical programming approach. <i>Canadian Journal of Chemical Engineering</i> , 2020 , 98, 2056-2078	2.3	2
315	Probing the Structure-Performance Relationship of Lithium-Ion Battery Cathodes Using Pore-Networks Extracted from Three-Phase Tomograms. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 040528	3.9	8
314	Multi-Criteria Examination of Power-to-Gas Pathways under Stochastic Preferences. <i>Energies</i> , 2020 , 13, 3151	3.1	4
313	A Data Size Reduction Approach Applicable in Process Control System of Oil and Gas Plants. <i>Sustainability</i> , 2020 , 12, 639	3.6	1
312	A hybrid kinetic and optimization approach for biomass pyrolysis: The hybrid scheme of the isoconversional methods, DAEM, and a parallel-reaction mechanism. <i>Energy Conversion and Management</i> , 2020 , 208, 112531	10.6	16
311	Techno-economic evaluation of PEVs energy storage capability in wind distributed generations planning. <i>Sustainable Cities and Society</i> , 2020 , 56, 102117	10.1	7
310	A Review on Plug-in Electric Vehicles: Introduction, Current Status, and Load Modeling Techniques. <i>Journal of Modern Power Systems and Clean Energy</i> , 2020 , 8, 412-425	4	43
309	Development of Interaction-Induced Functionalized Graphene Oxide on Mechanical and Anticorrosive Properties of Reinforced Polyurethane Composites. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 3617-3628	3.9	10
308	Goal Programming Application for Contract Pricing of Electric Vehicle Aggregator in Joint Day-Ahead Market. <i>Energies</i> , 2020 , 13, 1771	3.1	7
307	Heats and input variables selection for designing a water detection framework applicable to industrial electric arc furnaces. <i>Canadian Journal of Chemical Engineering</i> , 2020 , 98, 2096-2108	2.3	0
306	Artificial Intelligence-based Approach For Electric Vehicle Travel Behavior Modeling 2020 , 21-46		
305	Modelling the Impact of Uncontrolled Electric Vehicles Charging Demand on the Optimal Operation of Residential Energy Hubs 2020 , 289-312		0
304	Two-stage stochastic home energy management strategy considering electric vehicle and battery energy storage system: An ANN-based scenario generation methodology. <i>Sustainable Energy Technologies and Assessments</i> , 2020 , 39, 100722	4.7	18

303	Integrated Design and Operation Optimization of Hydrogen Commingled with Natural Gas in Pipeline Networks. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 1584-1595	3.9	4
302	Engineering investigation for the size effect of graphene oxide derived from graphene nanoplatelets in polyurethane composites. <i>Canadian Journal of Chemical Engineering</i> , 2020 , 98, 1084-1096	2.3	9
301	A multiobjective optimization framework for sustainable design of municipal solid waste processing pathways to energy and materials. <i>International Journal of Energy Research</i> , 2020 , 44, 771-784	4.5	6
300	Optimal Selection of Integrated Electricity Generation Systems for the Power Sector with Low Greenhouse Gas (GHG) Emissions. <i>Energies</i> , 2020 , 13, 4571	3.1	3
299	Mixed H/Passivity controller design through LMI approach applicable for waterflooding optimization in the presence of geological uncertainty. <i>Computers and Chemical Engineering</i> , 2020 , 142, 107055	4	4
298	A modified DAEM: To study the bioenergy potential of invasive Staghorn Sumac through pyrolysis, ANN, TGA, kinetic modeling, FTIR and GCMS analysis. <i>Energy Conversion and Management</i> , 2020 , 221, 113173	10.6	10
297	Efficient extraction of pore networks from massive tomograms via geometric domain decomposition. <i>Advances in Water Resources</i> , 2020 , 145, 103734	4.7	3
296	Machine Learning Based PEVs Load Extraction and Analysis. <i>Electronics (Switzerland)</i> , 2020 , 9, 1150	2.6	18
295	How can the integration of renewable energy and power-to-gas benefit industrial facilities? From techno-economic, policy, and environmental assessment. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 26559-26573	6.7	12
294	Generalized Framework for the Design of Eco-Industrial Parks: Case Study of End-of-Life Vehicles. <i>Sustainability</i> , 2020 , 12, 6612	3.6	5
293	Carbon molecular sieve membranes for natural gas purification: Role of surface flow. <i>Canadian Journal of Chemical Engineering</i> , 2020 , 98, 775-784	2.3	1
292	A Novel Electricity Price Forecasting Approach Based on Dimension Reduction Strategy and Rough Artificial Neural Networks. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 2369-2381	11.9	39
291	Modeling and Optimization of Energy Hubs: A Comprehensive Review. <i>Inventions</i> , 2019 , 4, 50	2.9	12
290	Economic Optimization Design of CO ₂ Pipeline Transportation with Booster Stations. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 16730-16742	3.9	6
289	Environmental Performance of Municipal Solid Waste Processing Pathways. <i>Energy Procedia</i> , 2019 , 158, 3363-3368	2.3	11
288	Optimal Charging of Plug-In Electric Vehicle: Considering Travel Behavior Uncertainties and Battery Degradation. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3420	2.6	11
287	An Improved Hybrid Particle Swarm Optimization and Tabu Search Algorithm for Expansion Planning of Large Dimension Electric Distribution Network. <i>Energies</i> , 2019 , 12, 3052	3.1	19
286	Grassroots petroleum refinery configuration for heavy oil processing. <i>Petroleum Science and Technology</i> , 2019 , 37, 275-281	1.4	2

285	Pharmacokinetic/Pharmacodynamic modeling and simulation of the effect of medications on Amyloid aggregates and cholinergic neurocycle. <i>Computers and Chemical Engineering</i> , 2019 , 126, 231-240	4	2
284	A system dynamics model for optimal allocation of natural gas to various demand sectors. <i>Computers and Chemical Engineering</i> , 2019 , 128, 88-105	4	6
283	Fundamental investigation of the effect of functional groups on the variations of higher heating value. <i>Fuel</i> , 2019 , 253, 881-886	7.1	5
282	Three pseudo-components kinetic modeling and nonlinear dynamic optimization of Rhus Typhina pyrolysis with the distributed activation energy model. <i>Applied Thermal Engineering</i> , 2019 , 157, 113633	5.8	9
281	Investigation of pyrolysis kinetics and thermal behavior of Invasive Reed Canary (Phalaris arundinacea) for bioenergy potential. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019 , 140, 385-392	6	35
280	A mixed-integer programming approach for clustering demand data for multiscale mathematical programming applications. <i>AIChE Journal</i> , 2019 , 65, e16578	3.6	2
279	PEVs data mining based on factor analysis method for energy storage and DG planning in active distribution network: Introducing S2S effect. <i>Energy</i> , 2019 , 175, 265-277	7.9	8
278	Robust economic model predictive control: disturbance rejection, robustness and periodic operation in chemical reactors. <i>Engineering Optimization</i> , 2019 , 51, 896-914	2	3
277	An overview on synthesis and design of microalgal biorefinery configurations by employing superstructure-based optimization approach. <i>Energy Systems</i> , 2019 , 10, 941-966	1.7	6
276	Multifunctional Nano-Architecting of Si Electrode for High-Performance Lithium-Ion Battery Anode. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A2776-A2783	3.9	3
275	Generic modeling framework of Multi-Energy Systems (MES) within the Upstream Oil Supply Chain (USOSC) network. <i>Computers and Chemical Engineering</i> , 2019 , 130, 106523	4	6
274	A model-based approach for optimizing petroleum refinery configuration for heavy oil processing. <i>Computer Aided Chemical Engineering</i> , 2019 , 175-180	0.6	
273	Design and Operation Optimization for Water and Power Cogeneration System by Reverse Osmosis and Renewable Energy Technologies. <i>Computer Aided Chemical Engineering</i> , 2019 , 229-234	0.6	
272	Optimal Production Planning and Pollution Control in Petroleum Refineries Using Mathematical Programming and Dispersion Models. <i>Sustainability</i> , 2019 , 11, 3771	3.6	2
271	Allocation of Ontario's Surplus Electricity to Different Power-to-Gas Applications. <i>Energies</i> , 2019 , 12, 2675	3.1	4
270	Predictive models and detection methods applicable in water detection framework for industrial electric arc furnaces. <i>Computers and Chemical Engineering</i> , 2019 , 128, 285-300	4	3
269	A model-based approach for biomass-to-bioproducts supply Chain network planning optimization. <i>Food and Bioproducts Processing</i> , 2019 , 118, 293-305	4.9	8
268	MINLP Model for Reverse Osmosis Network Design under Time-Variant Operation Constraints. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 22315-22323	3.9	2

267	Dual network extraction algorithm to investigate multiple transport processes in porous materials: Image-based modeling of pore and grain scale processes. <i>Computers and Chemical Engineering</i> , 2019 , 123, 64-77	4	15
266	Risk-Averse Optimal Bidding of Electric Vehicles and Energy Storage Aggregator in Day-Ahead Frequency Regulation Market. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 2036-2047	7	57
265	Municipality solid waste supply chain optimization to power production under uncertainty. <i>Computers and Chemical Engineering</i> , 2019 , 121, 338-353	4	7
264	A mixed integer nonlinear programming approach for petroleum refinery topology optimisation. <i>Chemical Engineering Research and Design</i> , 2019 , 143, 24-35	5.5	0
263	A reinforcement learning approach for waterflooding optimization in petroleum reservoirs. <i>Engineering Applications of Artificial Intelligence</i> , 2019 , 77, 98-116	7.2	18
262	Hydrogen supply via power-to-gas application in the renewable fuels regulations of petroleum fuels. <i>Canadian Journal of Chemical Engineering</i> , 2019 , 97, 1999-2008	2.3	2
261	Retrofit Design of Hydrogen Network in Refineries: Mathematical Model and Global Optimization. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 4996-5023	3.9	14
260	Cost-Benefit Analysis of V2G Implementation in Distribution Networks Considering PEVs Battery Degradation. <i>IEEE Transactions on Sustainable Energy</i> , 2018 , 9, 961-970	8.2	66
259	Battery Energy Storage Planning. <i>Power Systems</i> , 2018 , 185-214	0.4	1
258	Power-to-Gas: A New Energy Storage Concept for Integration of Future Energy Systems 2018 , 411-423		
257	Optimal Design, Operation, and Planning of Distributed Energy Systems Through the Multi-Energy Hub Network Approach 2018 , 365-389		1
256	Multiobjective Integrated Planning and Scheduling of the Energy Infrastructure of the Oil Sands Industry Incorporating Intermittent Renewable Energy. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 2208-2230	3.9	1
255	Predicting Dispersion and Pollutant Concentration of Dimethyl Sulfide (DMS) from a Biofilter Under Various Atmospheric Conditions. <i>Emission Control Science and Technology</i> , 2018 , 4, 64-71	2	4
254	A systematic approach for modeling of waterflooding process in the presence of geological uncertainties in oil reservoirs. <i>Computers and Chemical Engineering</i> , 2018 , 111, 66-78	4	10
253	Stochastic SCUC considering compressed air energy storage and wind power generation: A techno-economic approach with static voltage stability analysis. <i>International Journal of Electrical Power and Energy Systems</i> , 2018 , 100, 489-507	5.1	27
252	Plug-in electric vehicle batteries degradation modeling for smart grid studies: Review, assessment and conceptual framework. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 81, 2609-2624	16.2	84
251	Genetic algorithm for multi-parameter estimation in sorption and phase equilibria problems. <i>Chemical Engineering Communications</i> , 2018 , 205, 338-349	2.2	5
250	A System Dynamics Model for Analyzing Future Natural Gas Supply and Demand. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 11061-11075	3.9	5

249	Data Analytics Techniques for Performance Prediction of Steamflooding in Naturally Fractured Carbonate Reservoirs. <i>Energies</i> , 2018 , 11, 292	3.1	3
248	Simulation-Optimization Framework for Synthesis and Design of Natural Gas Downstream Utilization Networks. <i>Energies</i> , 2018 , 11, 362	3.1	5
247	Effect of light spectrum on isolation of microalgae from urban wastewater and growth characteristics of subsequent cultivation of the isolated species. <i>Algal Research</i> , 2018 , 29, 154-158	5	23
246	Integrating Simulation in Optimal Synthesis and Design of Natural Gas Upstream Processing Networks. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 5792-5804	3.9	5
245	Optimal processing route for the utilization and conversion of municipal solid waste into energy and valuable products. <i>Journal of Cleaner Production</i> , 2018 , 174, 857-867	10.3	43
244	Modeling and Optimization of Natural Gas Processing and Production Networks 2018 , 259-303		1
243	Optimization of Natural Gas Network Operation under Uncertainty 2018 , 197-218		
242	Solar-aided hydrogen production methods for the integration of renewable energies into oil & gas industries. <i>Energy Conversion and Management</i> , 2018 , 168, 395-406	10.6	21
241	Optimal Design of Petroleum Refinery Configuration Using a Model-Based Mixed-Integer Programming Approach with Practical Approximation. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 7555-7565	3.9	4
240	General optimization model for the energy planning of industries including renewable energy: A case study on oil sands. <i>AIChE Journal</i> , 2017 , 63, 610-638	3.6	4
239	Integration of Decentralized Energy Systems with Utility-Scale Energy Storage through Underground Hydrogen Natural Gas Co-Storage Using the Energy Hub Approach. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 2310-2330	3.9	6
238	Multivariate Modeling of a Chemical Toner Manufacturing Process. <i>Chemical Engineering and Technology</i> , 2017 , 40, 459-469	2	1
237	Optimization of supercritical fluid extraction of isoflavone from soybean meal. <i>Canadian Journal of Chemical Engineering</i> , 2017 , 95, 1141-1149	2.3	6
236	Identification of Dynamic Metabolic Flux Balance Models Based on Parametric Sensitivity Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 1911-1919	3.9	6
235	Dispersion of volatile organic compounds (VOCs) emissions from a biofilter at an electronic manufacturing facility. <i>Environmental Progress and Sustainable Energy</i> , 2017 , 36, 1100-1107	2.5	3
234	Development of a pricing mechanism for valuing ancillary, transportation and environmental services offered by a power to gas energy system. <i>Energy</i> , 2017 , 128, 447-462	7.9	26
233	Preparation and morphology study of carbon molecular sieve membrane derived from polyimide. <i>Canadian Journal of Chemical Engineering</i> , 2017 , 95, 1993-1998	2.3	5
232	Multiobjective Feature Selection Approach to Quantitative Structure Property Relationship Models for Predicting the Octane Number of Compounds Found in Gasoline. <i>Energy & Fuels</i> , 2017 , 31, 5828-5839	4.1	8

231	Real-time management of the waterflooding process using proxy reservoir modeling and data fusion theory. <i>Computers and Chemical Engineering</i> , 2017 , 106, 339-354	4	9
230	Optimal WDG planning in active distribution networks based on possibilistic-probabilistic PEVs load modelling. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 865-875	2.5	23
229	Tailoring the chemistry of blend copolymers boosting the electrochemical performance of Si-based anodes for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24159-24167	13	19
228	Dynamic and perturbative system analysis of granular material in a vibrating screen. <i>Advanced Powder Technology</i> , 2017 , 28, 3257-3264	4.6	8
227	Optimization methods for petroleum fields development and production systems: a review. <i>Optimization and Engineering</i> , 2017 , 18, 907-941	2.1	15
226	Multi-products productions from Malaysian oil palm empty fruit bunch (EFB): Analyzing economic potentials from the optimal biomass supply chain. <i>Journal of Cleaner Production</i> , 2017 , 168, 131-148	10.3	33
225	Pyrolysis, kinetics analysis, thermodynamics parameters and reaction mechanism of Typha latifolia to evaluate its bioenergy potential. <i>Bioresource Technology</i> , 2017 , 245, 491-501	11	100
224	New composite sustainability indices for Cradle-to-Cradle process design: Case study on thinner recovery from waste paint in auto industries. <i>Journal of Cleaner Production</i> , 2017 , 166, 253-262	10.3	7
223	Presenting the implementation of power-to-gas to an oil refinery as a way to reduce carbon intensity of petroleum fuels. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 19376-19388	6.7	20
222	Visible-solar-light-driven photo-reduction and removal of cadmium ion with Eosin Y-sensitized TiO ₂ in aqueous solution of triethanolamine. <i>Separation and Purification Technology</i> , 2017 , 174, 109-115	8.3	49
221	A circular economy solid waste supply chain management based approach under uncertainty. <i>Energy Procedia</i> , 2017 , 142, 2971-2976	2.3	7
220	Exploring the potential of power-to-gas concept to meet Ontario's industrial demand of hydrogen 2017 ,		4
219	Some remarks on the evaluation of m-cresol and pyridine biodegradation kinetics. <i>International Journal of Environment and Waste Management</i> , 2017 , 19, 353	0.9	
218	Comparing Non-Steady State Emissions under Start-Up and Shut-Down Operating Conditions with Steady State Emissions for Several Industrial Sectors: A Literature Review. <i>Energies</i> , 2017 , 10, 179	3.1	2
217	A Stochastic Programming Approach for the Planning and Operation of a Power to Gas Energy Hub with Multiple Energy Recovery Pathways. <i>Energies</i> , 2017 , 10, 868	3.1	21
216	Utilising biomass for renewable energy production: optimal profitability evaluation from different processing routes. <i>Journal of Mechanical Engineering and Sciences</i> , 2017 , 11, 3046-3057	2	4
215	Optimization of biofuel production from corn stover under supply uncertainty in Ontario. <i>Biofuel Research Journal</i> , 2017 , 4, 721-729	13.9	4
214	Energy infrastructure modeling for the oil sands industry: Current situation. <i>Applied Energy</i> , 2016 , 181, 435-445	10.7	23

213	Mathematical modelling of T-cells activation dynamics for CD3 molecules recycling process. <i>Canadian Journal of Chemical Engineering</i> , 2016 , 94, 2257-2267	2.3	
212	Optimal probabilistic based storage planning in tap-changer equipped distribution network including PEVs, capacitor banks and WDGs: A case study for Iran. <i>Energy</i> , 2016 , 112, 984-997	7.9	37
211	Integration of renewable energy sources into combined cycle power plants through electrolysis generated hydrogen in a new designed energy hub. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 16718-16728	6.7	42
210	Economic model predictive control of chemical processes with parameter uncertainty. <i>Computers and Chemical Engineering</i> , 2016 , 95, 10-20	4	12
209	Assessing energy performance of bio-based succinic acid production using LCA. <i>Journal of Cleaner Production</i> , 2016 , 139, 761-769	10.3	35
208	Two-layer optimization methodology for wind distributed generation planning considering plug-in electric vehicles uncertainty: A flexible active-reactive power approach. <i>Energy Conversion and Management</i> , 2016 , 124, 231-246	10.6	41
207	Multi-objective Optimization for Design and Operation of Distributed Energy Systems through the Multi-energy Hub Network Approach. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 8950-8966	3.9	26
206	Power-to-gas to meet transportation demand while providing ancillary services to the electrical grid 2016 ,		9
205	Decarbonizing transportation through the use of power-to-gas for oil refining operations 2016 ,		6
204	Corrosion inhibition of copper in sodium chloride solution using polyetherimide/graphene composites. <i>Canadian Journal of Chemical Engineering</i> , 2016 , 94, 896-904	2.3	24
203	Power-to-gas in a demand-response market. <i>International Journal of Environmental Studies</i> , 2016 , 73, 390-401	1.8	9
202	New composite sustainability indices for the assessment of a chemical process in the conceptual design stage: case study on hydrogenation plant. <i>Journal of Cleaner Production</i> , 2016 , 124, 132-141	10.3	8
201	Nonlinear optimization of gravity solids classification based on the feed and deck angles: a law of mass action approach. <i>Powder Technology</i> , 2016 , 291, 140-146	5.2	2
200	Dynamic Optimization of Lurgi Type Methanol Reactor Using Hybrid GA-GPS Algorithm: The Optimal Shell Temperature Trajectory and Carbon Dioxide Utilization. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 1164-1173	3.9	20
199	Benchmarking and selection of Power-to-Gas utilizing electrolytic hydrogen as an energy storage alternative. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 7717-7731	6.7	118
198	Mixed integer linear programming based approach for optimal planning and operation of a smart urban energy network to support the hydrogen economy. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 7700-7716	6.7	75
197	Enhanced protective properties and UV stability of epoxy/graphene nanocomposite coating on stainless steel. <i>EXPRESS Polymer Letters</i> , 2016 , 10, 1034-1046	3.4	24
196	Application of Scaling-Law and CFD Modeling to Hydrodynamics of Circulating Biomass Fluidized Bed Gasifier. <i>Energies</i> , 2016 , 9, 504	3.1	4

195	Dynamic population balance and flow models for granular solids in a linear vibrating screen. <i>AIChE Journal</i> , 2016 , 62, 3889-3898	3.6	3
194	Optimal synthesis of a heat-integrated petroleum refinery configuration. <i>Canadian Journal of Chemical Engineering</i> , 2016 , 94, 1939-1946	2.3	0
193	Population balances in case of crossing characteristic curves: Application to T-cells immune response. <i>Canadian Journal of Chemical Engineering</i> , 2016 , 94, 1167-1176	2.3	1
192	Optimization of Photovoltaic Electrolyzer Hybrid systems; taking into account the effect of climate conditions. <i>Energy Conversion and Management</i> , 2016 , 118, 438-449	10.6	26
191	Optimized integration of renewable energy technologies into Alberta's oil sands industry. <i>Computers and Chemical Engineering</i> , 2016 , 90, 1-22	4	10
190	Process intensification and modeling of a hybrid air stripping-biofilter (ASBF) system for removal of benzene from produced water. <i>Desalination and Water Treatment</i> , 2016 , 57, 15706-15713		
189	Reduced-order modelling of flexible CCS and assessment using short-term resource scheduling approach. <i>International Journal of Greenhouse Gas Control</i> , 2016 , 48, 253-274	4.2	6
188	Cost-analysis of health impacts associated with emissions from combined cycle power plant. <i>Journal of Cleaner Production</i> , 2016 , 139, 1408-1424	10.3	14
187	Enabling utility-scale electrical energy storage by a power-to-gas energy hub and underground storage of hydrogen and natural gas. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 35, 1180-1199	4.6	23
186	Shared and practical approach to conserve utilities in eco-industrial parks. <i>Computers and Chemical Engineering</i> , 2016 , 93, 221-233	4	22
185	Development and techno-economic analysis of an integrated petroleum coke, biomass, and natural gas polygeneration process. <i>Energy</i> , 2016 , 113, 861-874	7.9	12
184	Multiobjective Optimization of Methanol Synthesis Loop from Synthesis Gas via a Multibed Adiabatic Reactor with Additional Interstage CO ₂ Quenching. <i>Energy & Fuels</i> , 2015 , 29, 530-537	4.1	9
183	Energy gas storage in template-synthesized carbons with different porous structures. <i>Canadian Journal of Chemical Engineering</i> , 2015 , 93, 527-531	2.3	5
182	Optimization of the performance of a double-chamber microbial fuel cell through factorial design of experiments and response surface methodology. <i>Fuel</i> , 2015 , 150, 434-440	7.1	42
181	Optimizing mechanical properties of injection-molded long fiber-reinforced polypropylene. <i>Journal of Thermoplastic Composite Materials</i> , 2015 , 28, 849-862	1.9	5
180	Effect of socio-economic factors on EV/HEV/PHEV adoption rate in Ontario. <i>Technological Forecasting and Social Change</i> , 2015 , 98, 93-104	9.5	16
179	New sustainability indices for product design employing environmental impact and risk reduction: case study on gasoline blends. <i>Journal of Cleaner Production</i> , 2015 , 108, 312-320	10.3	17
178	Multi-Period Optimization Model for Electricity Generation Planning Considering Plug-in Hybrid Electric Vehicle Penetration. <i>Energies</i> , 2015 , 8, 3978-4002	3.1	8

177	Review of current technologies used in municipal solid waste-to-energy facilities in Canada. <i>Clean Technologies and Environmental Policy</i> , 2015 , 17, 1837-1846	4.3	42
176	Air quality assessment for the proposed Miller Braeside quarry expansion in Canada: TSP. <i>Air Quality, Atmosphere and Health</i> , 2015 , 8, 573-589	5.6	6
175	New technology integration approach for energy planning with carbon emission considerations. <i>Energy Conversion and Management</i> , 2015 , 95, 170-180	10.6	12
174	Generalized mixed-integer nonlinear programming modeling of eco-industrial networks to reduce cost and emissions. <i>Journal of Cleaner Production</i> , 2015 , 99, 160-176	10.3	16
173	Simulation and optimization of natural gas processing and production network consisting of LNG, GTL, and methanol facilities. <i>Journal of Natural Gas Science and Engineering</i> , 2015 , 23, 500-508	4.6	41
172	Optimal sizing of an electrolytic hydrogen production system using an existing natural gas infrastructure. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 9760-9772	6.7	51
171	Modeling and optimization of a network of energy hubs to improve economic and emission considerations. <i>Energy</i> , 2015 , 93, 2546-2558	7.9	110
170	Photocatalytic Processes for the Removal of Dye 2015 , 119-137		4
169	Using short-term resource scheduling for assessing effectiveness of CCS within electricity generation subsector. <i>AIChE Journal</i> , 2015 , 61, 4210-4234	3.6	2
168	A Surrogate-Based Optimization Methodology for the Optimal Design of an Air Quality Monitoring Network. <i>Canadian Journal of Chemical Engineering</i> , 2015 , 93, 1176-1187	2.3	13
167	A computer-aided framework for product design with application to wheat straw polypropylene composites. <i>Canadian Journal of Chemical Engineering</i> , 2015 , 93, 2141-2149	2.3	1
166	Modeling the Interaction between β Amyloid Aggregates and Choline Acetyltransferase Activity and Its Relation with Cholinergic Dysfunction through Two-Enzyme/Two-Compartment Model. <i>Computational and Mathematical Methods in Medicine</i> , 2015 , 2015, 923762	2.8	12
165	Activation of Apoptotic Signal in Endothelial Cells through Intracellular Signaling Molecules Blockade in Tumor-Induced Angiogenesis. <i>BioMed Research International</i> , 2015 , 2015, 908757	3	
164	Evolutionary optimization approaches for direct coupling photovoltaic-electrolyzer systems 2015 ,		2
163	A review of standards and guidelines set by international bodies for the parameters of indoor air quality. <i>Atmospheric Pollution Research</i> , 2015 , 6, 751-767	4.5	94
162	A theoretical investigation of 4,7-di(furan-2-yl)benzo[c][1,2,5]selenadiazole-based donor-acceptor type conjugated polymer. <i>Computational and Theoretical Chemistry</i> , 2015 , 1054, 38-45	2	6
161	Modern Water Reuse Technologies: Membrane Bioreactors 2015 , 383-392		
160	Estimation of breakthrough time for water coning in fractured systems: Experimental study and connectionist modeling. <i>AIChE Journal</i> , 2014 , 60, 1905-1919	3.6	43

159	Optimal design of split partial second pass reverse osmosis network for desalination applications. <i>AIChE Journal</i> , 2014 , 60, 520-532	3.6	26
158	Structured Mathematical Modeling, Bifurcation, and Simulation for the Bioethanol Fermentation Process Using <i>Zymomonas mobilis</i> . <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 5954-5972 ^{3,9}	3.9	12
157	Impact of geophysical and meteorological conditions on the dispersion of NO ₂ in Canada. <i>Air Quality, Atmosphere and Health</i> , 2014 , 7, 113-129	5.6	10
156	Effect of Char Combustion Product Distribution Coefficient on the CFD Modeling of Biomass Gasification in a Circulating Fluidized Bed. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 5554-5563	3.9	7
155	Connectionist Model to Estimate Performance of Steam-Assisted Gravity Drainage in Fractured and Unfractured Petroleum Reservoirs: Enhanced Oil Recovery Implications. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 1645-1662	3.9	23
154	New simple indices for risk assessment and hazards reduction at the conceptual design stage of a chemical process. <i>Chemical Engineering Science</i> , 2014 , 119, 218-229	4.4	19
153	Effect of the Feed Substrate Concentration on the Dynamic Performance of the Bioethanol Fermentation Process Using <i>Zymomonas mobilis</i> . <i>Energy & Fuels</i> , 2014 , 28, 5543-5556	4.1	7
152	Modelling of greenhouse gas emissions from the steady state and non-steady state operations of a combined cycle power plant located in Ontario, Canada. <i>Fuel</i> , 2014 , 136, 103-112	7.1	9
151	CHAPTER 2:Photocatalytic Processes for the Removal of Toxic Metal Ions 2014 , 25-43		11
150	Recovery Rate of Vapor Extraction in Heavy Oil ReservoirsExperimental, Statistical, and Modeling Studies. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 16091-16106	3.9	15
149	Experimental and Numerical Modeling Study of Gravity Drainage Considering Asphaltene Deposition. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 11512-11526	3.9	19
148	New tools to determine bubble point pressure of crude oils: Experimental and modeling study. <i>Journal of Petroleum Science and Engineering</i> , 2014 , 123, 207-216	4.4	16
147	Effects of meteorological conditions on the concentration and dispersion of an accidental release of H ₂ S in Canada. <i>Atmospheric Environment</i> , 2014 , 82, 316-326	5.3	12
146	Asphaltene precipitation and deposition in oil reservoirs Technical aspects, experimental and hybrid neural network predictive tools. <i>Chemical Engineering Research and Design</i> , 2014 , 92, 857-875	5.5	113
145	Nonlinear programming optimization of series and parallel cyclone arrangement of NPK fertilizer plants. <i>Powder Technology</i> , 2014 , 264, 203-215	5.2	0
144	A dual approach for modelling and optimisation of industrial urea reactor: Smart technique and grey box model. <i>Canadian Journal of Chemical Engineering</i> , 2014 , 92, 469-485	2.3	13
143	Optimisation of material and energy exchange in an eco-park network considering three fuel sources. <i>International Journal of Advanced Operations Management</i> , 2014 , 6, 285	0.8	2
142	A study of the dispersion of vinyl chloride from a renewable energy facility located in Ontario, Canada. <i>Journal of Renewable and Sustainable Energy</i> , 2014 , 6, 063109	2.5	

141	Bayesian classifiers applied to the Tennessee Eastman process. <i>Risk Analysis</i> , 2014 , 34, 485-97	3.9	9
140	Wheat straw fibre size effects on the mechanical properties of polypropylene composites. <i>Canadian Journal of Chemical Engineering</i> , 2014 , 92, 1700-1708	2.3	5
139	Ozone Pollution Prediction around Industrial Areas Using Fuzzy Neural Network Approach. <i>Clean - Soil, Air, Water</i> , 2014 , 42, 871-879	1.6	4
138	Optimal mechanical and gas permeation properties of polypropylene-organically modified montmorillonite (PP-OMMT) nanocomposites. <i>Journal of Polymer Engineering</i> , 2014 , 34, 501-509	1.4	1
137	Modeling of formaldehyde and nitrogen oxides from a proposed renewable energy biogas facility in Canada. <i>Journal of Renewable and Sustainable Energy</i> , 2014 , 6, 043121	2.5	2
136	Financial risk management for new technology integration in energy planning under uncertainty. <i>Applied Energy</i> , 2014 , 128, 75-81	10.7	27
135	Design of an energy hub based on natural gas and renewable energy sources. <i>International Journal of Energy Research</i> , 2014 , 38, 363-373	4.5	38
134	Reservoir permeability prediction by neural networks combined with hybrid genetic algorithm and particle swarm optimization. <i>Geophysical Prospecting</i> , 2013 , 61, 582-598	1.9	150
133	Robust Multi-Objective Genetic Algorithm (RMOGA) with Online Approximation under Interval Uncertainty 2013 , 157-181		
132	Computer-Aided Product Design of Wheat Straw Polypropylene Composites 2013 , 237-253		0
131	Computational Fluid Dynamics Modeling of Biomass Gasification in Circulating Fluidized-Bed Reactor Using the Eulerian-Eulerian Approach. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 18162-18174	3.9	52
130	Steady-State Simulation of a Novel Annular Multitubular Reactor for Enhanced Methanol Production. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 15387-15393	3.9	7
129	Practical and Economic Aspects of the Ex-Situ Process: Implications for CO2 Sequestration. <i>Energy & Fuels</i> , 2013 , 27, 401-413	4.1	29
128	Electricity demand estimation using an adaptive neuro-fuzzy network: A case study from the Ontario province [Canada]. <i>Energy</i> , 2013 , 49, 323-328	7.9	75
127	Utilization of support vector machine to calculate gas compressibility factor. <i>Fluid Phase Equilibria</i> , 2013 , 358, 189-202	2.5	45
126	Tactical and Operational Planning of Multirefinery Networks under Uncertainty: An Iterative Integration Approach. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 8507-8517	3.9	14
125	Energy Hub Based on Nuclear Energy and Hydrogen Energy Storage. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 7470-7481	3.9	27
124	Stochastic Modeling of the Oil Sands Operations under Greenhouse Gas Emission Restrictions and Water Management. <i>Energy & Fuels</i> , 2013 , 27, 5559-5578	4.1	17

123	A robust distributed model predictive control based on a dual-mode approach. <i>Computers and Chemical Engineering</i> , 2013 , 50, 130-138	4	12
122	The quality-constrained scheduling problem in plastics compounding. <i>Canadian Journal of Chemical Engineering</i> , 2013 , 91, 1229-1243	2.3	2
121	Colloidal interaction and connectionist modelling of protein osmotic pressure and the effect of physicochemical properties. <i>Canadian Journal of Chemical Engineering</i> , 2013 , 91, 1621-1631	2.3	3
120	OVERALL INTEGRATION OF THE MANAGEMENT OF H2 AND CO2 WITHIN REFINERY PLANNING USING RIGOROUS PROCESS MODELS. <i>Chemical Engineering Communications</i> , 2013 , 200, 139-161	2.2	17
119	Parameter Estimation in Phase Equilibria Calculations Using Multi-Objective Evolutionary Algorithms 2013 , 247-265		1
118	Multiobjective Optimization of a Benfield HiPure Gas Sweetening Unit. <i>Journal of Industrial Mathematics</i> , 2013 , 2013, 1-11		1
117	Analysis of Ontario's hydrogen economy demands from hydrogen fuel cell vehicles. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 8905-8916	6.7	45
116	Dynamic behavior of coke drum process safety valves during blocked outlet condition in the refinery delayed coking unit. <i>Journal of Loss Prevention in the Process Industries</i> , 2012 , 25, 336-343	3.5	2
115	Optimisation of petroleum refinery water network systems retrofit incorporating reuse, regeneration and recycle strategies. <i>Canadian Journal of Chemical Engineering</i> , 2012 , 90, 137-143	2.3	13
114	Optimization of multi-refinery hydrogen networks. <i>Computer Aided Chemical Engineering</i> , 2012 , 31, 1331-1335	1.3	5
113	Engineering Economics for Chemical Processes 2012 , 329-353		1
112	A Systematic Computer-Aided Product Design and Development Procedure: Case of Disinfectant Formulations. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 14925-14934	3.9	6
111	Application of continuation method and bifurcation for the acetylcholine neurocycle considering partial dissociation of acetic acid. <i>Computers and Chemical Engineering</i> , 2012 , 46, 78-93	4	8
110	A modeling study of the effect of carbon dioxide mitigation strategies, natural gas prices and steam consumption on the Canadian Oil Sands operations. <i>Energy</i> , 2012 , 45, 1018-1033	7.9	32
109	Optimal integration of nuclear energy and water management into the oil sands operations. <i>AIChE Journal</i> , 2012 , 58, 3433-3453	3.6	14
108	Numerical simulation and optimisation of unconventional three-section simulated countercurrent moving bed chromatographic reactor for oxidative coupling of methane reaction. <i>Canadian Journal of Chemical Engineering</i> , 2012 , 90, 1502-1513	2.3	6
107	Impact of PHEVs Penetration on Ontario's Electricity Grid and Environmental Considerations. <i>Energies</i> , 2012 , 5, 5019-5037	3.1	10
106	. <i>IEEE Transactions on Power Systems</i> , 2011 , 26, 2264-2274	7	117

105	Predictive model of pervaporation performance based on physicochemical properties of permeant membrane material and process conditions. <i>Journal of Membrane Science</i> , 2011 , 381, 1-9	9.6	6
104	Prediction of isoflavone extraction from soybean meal using supercritical carbon dioxide with cosolvents. <i>Chemical Engineering Journal</i> , 2011 , 172, 1023-1032	14.7	13
103	Metabolic flux-based optimisation of recombinant human interleukin-3 expression by <i>Streptomyces lividans</i> 66. <i>Canadian Journal of Chemical Engineering</i> , 2011 , 89, 879-888	2.3	1
102	Robust distributed model predictive control: A review and recent developments. <i>Canadian Journal of Chemical Engineering</i> , 2011 , 89, 1176-1190	2.3	16
101	Dimensional Analysis and Scale-up of Immiscible Two-Phase Flow Displacement in Fractured Porous Media under Controlled Gravity Drainage. <i>Energy & Fuels</i> , 2011 , 25, 1731-1750	4.1	63
100	Integrated Energy Optimization Model for Oil Sands Operations. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 12641-12663	3.9	20
99	Sustainable convergence of electricity and transport sectors in the context of a hydrogen economy. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 6357-6375	6.7	15
98	A robust distributed model predictive control algorithm. <i>Journal of Process Control</i> , 2011 , 21, 1127-1137	3.9	61
97	Control vector optimization and genetic algorithms for mixed-integer dynamic optimization in the synthesis of rice drying processes. <i>Journal of the Franklin Institute</i> , 2011 , 348, 1318-1338	4	11
96	Literature review of oil refineries planning under uncertainty. <i>International Journal of Oil, Gas and Coal Technology</i> , 2011 , 4, 156	0.6	13
95	Integration of hydrogen management in refinery planning with rigorous process models and product quality specifications. <i>International Journal of Process Systems Engineering</i> , 2011 , 1, 302	0.3	24
94	2010,		8
93	COMPENSATOR FOR CONSTANT RELATIVE STABILITY IN PROCESS CONTROL SYSTEMS. <i>Chemical Engineering Communications</i> , 2010 , 198, 344-359	2.2	
92	Dynamic Modeling and Optimization of a Batch Reactor for Limonene Epoxidation. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 8369-8378	3.9	5
91	Systematic Statistical-Based Approach for Product Design: Application to Disinfectant Formulations. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 204-209	3.9	5
90	Strategic Planning of Integrated Multirefinery Networks: A Robust Optimization Approach Based on the Degree of Conservatism. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 9970-9977	3.9	15
89	Generalized Disjunctive Programming for Synthesis of Rice Drying Processes. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 2312-2325	3.9	3
88	. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 690-701	8.9	203

87	The Application of Response Surface Methodology for the Optimization of an Extractive Distillation Process. <i>Petroleum Science and Technology</i> , 2010 , 28, 1788-1798	1.4	4
86	Petroleum refinery operational planning using robust optimization. <i>Engineering Optimization</i> , 2010 , 42, 1119-1131	2	19
85	Petroleum Refinery Planning 2010 , 19-54		
84	Petrochemical Network Planning 2010 , 81-89		
83	META-HEURISTICS: EVALUATION AND REPORTING TECHNIQUES. <i>Advances in Process Systems Engineering</i> , 2010 , 337-352		
82	A multi-period optimization model for energy planning with CO(2) emission consideration. <i>Journal of Environmental Management</i> , 2010 , 91, 1063-70	7.9	59
81	The thermal conductivities enhancement of mono ethylene glycol and paraffin fluids by adding ESiC nanoparticles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010 , 101, 113-118	4.1	13
80	A Bayesian experimental design approach for assessing new product performance: An application to disinfectant formulation. <i>Canadian Journal of Chemical Engineering</i> , 2010 , 88, 88-94	2.3	1
79	Optimal implementation of CO2 capture technology in power and hydrogen production for oil sands operations. <i>Canadian Journal of Chemical Engineering</i> , 2010 , 88, n/a-n/a	2.3	2
78	Selection of control structure for distributed model predictive control in the presence of model errors. <i>Journal of Process Control</i> , 2010 , 20, 270-284	3.9	39
77	Air quality and environmental impacts of alternative vehicle technologies in Ontario, Canada. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 5145-5153	6.7	18
76	Sustainability indicators for decision-making and optimisation in the process industry: The case of the petrochemical industry. <i>Chemical Engineering Science</i> , 2010 , 65, 1452-1461	4.4	60
75	Robust planning of multisite refinery networks: Optimization under uncertainty. <i>Computers and Chemical Engineering</i> , 2010 , 34, 985-995	4	31
74	Superstructure optimization for the synthesis of chemical process flowsheets: Application to optimal hybrid membrane systems. <i>Engineering Optimization</i> , 2009 , 41, 327-350	2	17
73	Long-term electricity demand forecasting for power system planning using economic, demographic and climatic variables. <i>European Journal of Industrial Engineering</i> , 2009 , 3, 277	1.1	20
72	Optimal Fixed Bed Reactor Network Configuration for the Efficient Recycling of CO2 into Methanol. <i>Energies</i> , 2009 , 2, 180-189	3.1	7
71	Carbon Management and Hydrogen Requirements in Oil Sands Operations 2009 , 87-126		
70	Clean-Coal Technology: Gasification Pathway 2009 , 243-276		1

69	An Integrated Approach for Carbon Mitigation in the Electric Power Generation Sector 2009 , 277-312		
68	Optimization of energy usage for fleet-wide power generating system under carbon mitigation options. <i>AICHE Journal</i> , 2009 , 55, 3168-3190	3.6	20
67	Design and experimental investigation of portable solar thermoelectric refrigerator. <i>Renewable Energy</i> , 2009 , 34, 30-34	8.1	95
66	Non-linear feedback modeling and bifurcation of the acetylcholine neurocycle and its relation to Alzheimer's and Parkinson's diseases. <i>Chemical Engineering Science</i> , 2009 , 64, 69-90	4.4	14
65	A model of nanofluids effective thermal conductivity based on dimensionless groups. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009 , 96, 81-84	4.1	45
64	Renewable agricultural fibers as reinforcing fillers in plastics. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009 , 96, 85-90	4.1	10
63	Optimizing energy production with integrated CCS technology for CO2 emissions mitigation in the Canadian oil sands industry. <i>Energy Procedia</i> , 2009 , 1, 3985-3992	2.3	9
62	A multi-period optimization model for energy planning with CO2 emission considerations. <i>Energy Procedia</i> , 2009 , 1, 4339-4346	2.3	24
61	Multisite Refinery and Petrochemical Network Design: Optimal Integration and Coordination. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 814-826	3.9	25
60	Control of Claus Unit Tail Gas in an Oil Refinery 2009 ,		4
59	Omani Bedouins' readiness to accept solar thermoelectric refrigeration systems. <i>International Journal of Energy Technology and Policy</i> , 2009 , 7, 127	1	2
58	An Online Algorithm for Robust Distributed Model Predictive Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 780-785		3
57	Heterogeneous Modeling, Identification and Simulation of Activated Sludge Processes. <i>American Journal of Environmental Sciences</i> , 2009 , 5, 352-363	0.5	1
56	A Computational Intelligent Based Approach for the Development of a Minimal Defined Medium: Application to Human Interleukin-3 Production by <i>Streptomyces lividans</i> 66. <i>Studies in Computational Intelligence</i> , 2009 , 215-236	0.8	
55	Energy Optimization Model with CO2-Emission Constraints for the Canadian Oil Sands Industry. <i>Energy & Fuels</i> , 2008 , 22, 2660-2670	4.1	31
54	Robust Optimization for Petrochemical Network Design under Uncertainty. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 3912-3919	3.9	15
53	A nonlinear programming model for refinery planning and optimisation with rigorous process models and product quality specifications. <i>International Journal of Oil, Gas and Coal Technology</i> , 2008 , 1, 283	0.6	31
52	AN OPTIMAL EXTENDED KALMAN FILTER DESIGNED BY GENETIC ALGORITHMS. <i>Chemical Engineering Communications</i> , 2008 , 196, 602-615	2.2	8

51	Global Optimization of Reverse Osmosis Network for Wastewater Treatment and Minimization. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 3060-3070	3.9	43
50	Modeling of nitrogen oxides (NO(x)) concentrations resulting from ships at berth. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2008 , 43, 1706-16	2.3	6
49	An Optimization Approach for Integrating Planning and CO2 Emission Reduction in the Petroleum Refining Industry. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 760-776	3.9	42
48	Robustness Issues Related to the Application of Distributed Model Predictive Control Strategies. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 8395-8400		1
47	Incorporating the systems approach in future undergraduate chemical engineering education curriculum: illustration via computer-aided process simulation laboratory exercises. <i>World Review of Science, Technology and Sustainable Development</i> , 2008 , 5, 402	1	1
46	Development of a minimal defined medium for recombinant human interleukin-3 production by <i>Streptomyces lividans</i> 66. <i>Biotechnology and Bioengineering</i> , 2008 , 99, 214-22	4.9	18
45	A heuristic optimization approach for Air Quality Monitoring Network design with the simultaneous consideration of multiple pollutants. <i>Journal of Environmental Management</i> , 2008 , 88, 507-16	7.9	19
44	An order-specific clustering algorithm for the determination of representative demand curves. <i>Computers and Chemical Engineering</i> , 2008 , 32, 1365-1372	4	16
43	Multisite facility network integration design and coordination: An application to the refining industry. <i>Computers and Chemical Engineering</i> , 2008 , 32, 2189-2202	4	33
42	Optimal tuning of PID controllers for FOPTD, SOPTD and SOPTD with lead processes. <i>Chemical Engineering and Processing: Process Intensification</i> , 2008 , 47, 251-264	3.7	57
41	Optimal design of reverse-osmosis networks for wastewater treatment. <i>Chemical Engineering and Processing: Process Intensification</i> , 2008 , 47, 2163-2174	3.7	31
40	Two-stage stochastic programming with fixed recourse via scenario planning with economic and operational risk management for petroleum refinery planning under uncertainty. <i>Chemical Engineering and Processing: Process Intensification</i> , 2008 , 47, 1744-1764	3.7	56
39	WASTE REDUCTION FOR CHEMICAL PLANT OPERATIONS 2007 , 89-124		0
38	Modeling the Energy Demands and Greenhouse Gas Emissions of the Canadian Oil Sands Industry. <i>Energy & Fuels</i> , 2007 , 21, 2098-2111	4.1	47
37	Building inferential estimators for modeling product quality in a crude oil desalting and dehydration process. <i>Chemical Engineering and Processing: Process Intensification</i> , 2006 , 45, 568-577	3.7	22
36	Modelling and optimization of a multistage flash desalination process. <i>Engineering Optimization</i> , 2005 , 37, 591-607	2	23
35	Optimization Model for Energy Planning with CO2 Emission Considerations. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 879-890	3.9	83
34	The Influence of Temperature, Pressure, Salinity, and Surfactant Concentration on the Interfacial Tension of the N-Octane-Water System. <i>Chemical Engineering Communications</i> , 2005 , 192, 667-684	2.2	82

33	A Computational Intelligence Based Approach for the Analysis and Optimization of a Crude Oil Desalting and Dehydration Process. <i>Energy & Fuels</i> , 2005 , 19, 2526-2534	4.1	19
32	Supercritical CO ₂ extraction of nimbin from neem seeds— modelling study. <i>Journal of Food Engineering</i> , 2005 , 71, 331-340	6	55
31	Prediction of lower critical solution temperature of N-isopropylacrylamide-acrylic acid copolymer by an artificial neural network model. <i>Journal of Molecular Modeling</i> , 2005 , 11, 55-60	2	10
30	Use of a novel surfactant for improving the transportability/transportation of heavy/viscous crude oils. <i>Journal of Petroleum Science and Engineering</i> , 2004 , 42, 235-243	4.4	59
29	Modeling and Identification of Economic Disturbances in the Planning of the Petrochemical Industry. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 4678-4688	3.9	9
28	Experimental investigation of crude oil desalting and dehydration. <i>Chemical Engineering Communications</i> , 2003 , 190, 65-82	2.2	31
27	Planning an Integrated Petrochemical Business Portfolio for Long-Range Financial Stability. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 2798-2804	3.9	7
26	THE ACCURACY OF PREDICTING COMPRESSIBILITY FACTOR FOR SOUR NATURAL GASES. <i>Petroleum Science and Technology</i> , 2001 , 19, 711-731	1.4	25
25	Planning an Integrated Petrochemical Industry with an Environmental Objective. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 2103-2111	3.9	34
24	Compressibility Factor for Sour Gas Reservoirs 2000 ,		9
23	Homopolymerization of 4-propionoxybenzoic acid: A kinetic study. <i>Journal of Applied Polymer Science</i> , 1999 , 72, 467-476	2.9	8
22	FLOW PROPERTIES OF WEATHERED CRUDE OILS AND THEIR EMULSIONS. <i>Journal of Dispersion Science and Technology</i> , 1999 , 20, 857-882	1.5	3
21	MODELING THE HYDROCRACKING PROCESS USING ARTIFICIAL NEURAL NETWORKS. <i>Petroleum Science and Technology</i> , 1999 , 17, 931-954	1.4	32
20	Neural Network Model for the Prediction of Water Aquifer Dimensionless Variables for Edge- and Bottom-Water Drive Reservoirs. <i>Energy & Fuels</i> , 1999 , 13, 88-98	4.1	8
19	Optimal Hydrate Inhibition Policies with the Aid of Neural Networks. <i>Energy & Fuels</i> , 1999 , 13, 105-113	4.3	27
18	A ROLLING HORIZON HEURISTIC FOR REACTIVE SCHEDULING OF BATCH PROCESS OPERATIONS. <i>Engineering Optimization</i> , 1999 , 31, 763-792	2	20
17	An artificial neural network for predicting and optimizing immiscible flood performance in heterogeneous reservoirs. <i>Computers and Chemical Engineering</i> , 1998 , 22, 1699-1709	4	24
16	A new correlation for predicting hydrate formation conditions for various gas mixtures and inhibitors. <i>Fluid Phase Equilibria</i> , 1998 , 152, 23-42	2.5	67

15	Scaling Miscible Fluid Displacements in Porous Media. <i>Energy & Fuels</i> , 1998 , 12, 801-811	4.1	39
14	An optimization model for air pollution control decision making. <i>Environmental Modelling and Software</i> , 1997 , 12, 51-58	5.2	23
13	Modelling pressure distribution in a rectangular gas bearing using neural networks. <i>Tribology International</i> , 1997 , 30, 139-150	4.9	21
12	A neural network prediction model of fluid displacements in porous media. <i>Computers and Chemical Engineering</i> , 1996 , 20, S515-S520	4	6
11	An artificial neural network for the prediction of immiscible flood performance. <i>Energy & Fuels</i> , 1995 , 9, 894-900	4.1	31
10	Heuristic algorithm for scheduling batch and semi-continuous plants with production deadlines, intermediate storage limitations and equipment changeover costs. <i>Computers and Chemical Engineering</i> , 1994 , 18, 859-875	4	31
9	A statistical mechanics approach to the separation of methane and nitrogen using capillary condensation in a microporous membrane. <i>Journal of Membrane Science</i> , 1992 , 65, 163-172	9.6	22
8	Prediction of capillary condensation in small cylindrical pores using the local density approximation and a full Lennard-Jones 6-12 potential. <i>The Journal of Physical Chemistry</i> , 1991 , 95, 10076-10080		2
7	Introduction to Trading, Pricing, and Valuation of Crude Oils and Petroleum Products577-596		1
6	Roles of Computers in Petroleum Refineries685-700		2
5	Environmental Issues Related to the Petroleum Refining Industry701-715		
4	Prospective Outlook on World Oil and Gas Reserves and Long-Range Planning Systems21-53		
3	Environmental and Safety Issues and Solutions Related to Oil and Gas Production529-570		
2	Solar Energy Integration in the Upstream Oil Supply Chain679-692		
1	Investigating the bioenergy potential of invasive Reed Canary (Phalaris arundinacea) through thermal and kinetic analyses. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	1