

Ali Elkamel

List of Publications by Citations

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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	. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 690-701	8.9	203
337	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
336	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
335	. <i>IEEE Transactions on Power Systems</i> , 2011 , 26, 2264-2274	7	117
334	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
333	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
332	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
331	Design and experimental investigation of portable solar thermoelectric refrigerator. <i>Renewable Energy</i> , 2009 , 34, 30-34	8.1	95
330	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
329	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
328	Optimization Model for Energy Planning with CO2 Emission Considerations. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 879-890	3.9	83
327	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
326	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
325	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
324	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
323	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
322	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

321	A robust distributed model predictive control algorithm. <i>Journal of Process Control</i> , 2011 , 21, 1127-1137	3.9	61
320	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
319	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
318	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
317	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
316	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
315	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
314	Supercritical CO ₂ extraction of nimbin from neem seeds—modelling study. <i>Journal of Food Engineering</i> , 2005 , 71, 331-340	6	55
313	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
312	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
311	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
310	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
309	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
308	Utilization of support vector machine to calculate gas compressibility factor. <i>Fluid Phase Equilibria</i> , 2013 , 358, 189-202	2.5	45
307	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
306	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
305	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
304	Global Optimization of Reverse Osmosis Network for Wastewater Treatment and Minimization. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 3060-3070	3.9	43

303	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
302	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
301	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
300	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
299	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
298	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
297	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
296	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
295	Scaling Miscible Fluid Displacements in Porous Media. <i>Energy & Fuels</i> , 1998 , 12, 801-811	4.1	39
294	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
293	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
292	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
291	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
290	Assessing energy performance of bio-based succinic acid production using LCA. <i>Journal of Cleaner Production</i> , 2016 , 139, 761-769	10.3	35
289	Planning an Integrated Petrochemical Industry with an Environmental Objective. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 2103-2111	3.9	34
288	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
287	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
286	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

285	MODELING THE HYDROCRACKING PROCESS USING ARTIFICIAL NEURAL NETWORKS. <i>Petroleum Science and Technology</i> , 1999 , 17, 931-954	1.4	32
284	. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 8298-8309	8.9	32
283	Robust planning of multisite refinery networks: Optimization under uncertainty. <i>Computers and Chemical Engineering</i> , 2010 , 34, 985-995	4	31
282	Energy Optimization Model with CO ₂ -Emission Constraints for the Canadian Oil Sands Industry. <i>Energy & Fuels</i> , 2008 , 22, 2660-2670	4.1	31
281	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
280	Optimal design of reverse-osmosis networks for wastewater treatment. <i>Chemical Engineering and Processing: Process Intensification</i> , 2008 , 47, 2163-2174	3.7	31
279	Experimental investigation of crude oil desalting and dehydration. <i>Chemical Engineering Communications</i> , 2003 , 190, 65-82	2.2	31
278	An artificial neural network for the prediction of immiscible flood performance. <i>Energy & Fuels</i> , 1995 , 9, 894-900	4.1	31
277	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
276	Practical and Economic Aspects of the Ex-Situ Process: Implications for CO ₂ Sequestration. <i>Energy & Fuels</i> , 2013 , 27, 401-413	4.1	29
275	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
274	Financial risk management for new technology integration in energy planning under uncertainty. <i>Applied Energy</i> , 2014 , 128, 75-81	10.7	27
273	Energy Hub Based on Nuclear Energy and Hydrogen Energy Storage. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 7470-7481	3.9	27
272	Optimal Hydrate Inhibition Policies with the Aid of Neural Networks. <i>Energy & Fuels</i> , 1999 , 13, 105-113	1.3	27
271	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
270	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
269	Optimal design of split partial second pass reverse osmosis network for desalination applications. <i>AIChE Journal</i> , 2014 , 60, 520-532	3.6	26
268	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

267	Multisite Refinery and Petrochemical Network Design: Optimal Integration and Coordination. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 814-826	3.9	25
266	THE ACCURACY OF PREDICTING COMPRESSIBILITY FACTOR FOR SOUR NATURAL GASES. <i>Petroleum Science and Technology</i> , 2001 , 19, 711-731	1.4	25
265	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
264	A multi-period optimization model for energy planning with CO2 emission considerations. <i>Energy Procedia</i> , 2009 , 1, 4339-4346	2.3	24
263	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
262	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
261	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
260	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
259	Energy infrastructure modeling for the oil sands industry: Current situation. <i>Applied Energy</i> , 2016 , 181, 435-445	10.7	23
258	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
257	An optimization model for air pollution control decision making. <i>Environmental Modelling and Software</i> , 1997 , 12, 51-58	5.2	23
256	Modelling and optimization of a multistage flash desalination process. <i>Engineering Optimization</i> , 2005 , 37, 591-607	2	23
255	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
254	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
253	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
252	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
251	Shared and practical approach to conserve utilities in eco-industrial parks. <i>Computers and Chemical Engineering</i> , 2016 , 93, 221-233	4	22
250	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

249	Modelling pressure distribution in a rectangular gas bearing using neural networks. <i>Tribology International</i> , 1997 , 30, 139-150	4.9	21
248	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
247	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
246	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
245	Integrated Energy Optimization Model for Oil Sands Operations. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 12641-12663	3.9	20
244	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
243	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
242	A ROLLING HORIZON HEURISTIC FOR REACTIVE SCHEDULING OF BATCH PROCESS OPERATIONS. <i>Engineering Optimization</i> , 1999 , 31, 763-792	2	20
241	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
240	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
239	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
238	Experimental and Numerical Modeling Study of Gravity Drainage Considering Asphaltene Deposition. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 11512-11526	3.9	19
237	Petroleum refinery operational planning using robust optimization. <i>Engineering Optimization</i> , 2010 , 42, 1119-1131	2	19
236	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
235	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
234	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
233	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
232	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

231	Machine Learning Based PEVs Load Extraction and Analysis. <i>Electronics (Switzerland)</i> , 2020 , 9, 1150	2.6	18
230	A reinforcement learning approach for waterflooding optimization in petroleum reservoirs. <i>Engineering Applications of Artificial Intelligence</i> , 2019 , 77, 98-116	7.2	18
229	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
228	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
227	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
226	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
225	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
224	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
223	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
222	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
221	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
220	Robust distributed model predictive control: A review and recent developments. <i>Canadian Journal of Chemical Engineering</i> , 2011 , 89, 1176-1190	2.3	16
219	An order-specific clustering algorithm for the determination of representative demand curves. <i>Computers and Chemical Engineering</i> , 2008 , 32, 1365-1372	4	16
218	Recovery Rate of Vapor Extraction in Heavy Oil Reservoirs: Experimental, Statistical, and Modeling Studies. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 16091-16106	3.9	15
217	Optimization methods for petroleum fields development and production systems: a review. <i>Optimization and Engineering</i> , 2017 , 18, 907-941	2.1	15
216	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
215	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
214	Robust Optimization for Petrochemical Network Design under Uncertainty. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 3912-3919	3.9	15

213	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
212	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
211	Optimal integration of nuclear energy and water management into the oil sands operations. <i>AIChE Journal</i> , 2012 , 58, 3433-3453	3.6	14
210	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
209	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
208	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
207	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
206	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
205	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
204	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
203	Literature review of oil refineries planning under uncertainty. <i>International Journal of Oil, Gas and Coal Technology</i> , 2011 , 4, 156	0.6	13
202	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
201	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
200	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
199	Modeling and Optimization of Energy Hubs: A Comprehensive Review. <i>Inventions</i> , 2019 , 4, 50	2.9	12
198	New technology integration approach for energy planning with carbon emission considerations. <i>Energy Conversion and Management</i> , 2015 , 95, 170-180	10.6	12
197	Economic model predictive control of chemical processes with parameter uncertainty. <i>Computers and Chemical Engineering</i> , 2016 , 95, 10-20	4	12
196	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

195	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
194	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
193	A robust distributed model predictive control based on a dual-mode approach. <i>Computers and Chemical Engineering</i> , 2013 , 50, 130-138	4	12
192	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
191	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
190	Environmental Performance of Municipal Solid Waste Processing Pathways. <i>Energy Procedia</i> , 2019 , 158, 3363-3368	2.3	11
189	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
188	CHAPTER 2: Photocatalytic Processes for the Removal of Toxic Metal Ions 2014 , 25-43		11
187	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
186	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
185	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
184	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
183	Renewable agricultural fibers as reinforcing fillers in plastics. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009 , 96, 85-90	4.1	10
182	Impact of PHEVs Penetration on Ontario's Electricity Grid and Environmental Considerations. <i>Energies</i> , 2012 , 5, 5019-5037	3.1	10
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