Ali Almansoori

List of Publications by Year in descending order

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218677 155660 3,285 93 26 55 h-index citations g-index papers 96 96 96 3319 times ranked docs citations citing authors all docs

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Regularized error-in-variable estimation for big data modeling and process analytics. Control Engineering Practice, 2022, 121, 105060. | 5.5 | 2 |
| 2 | Municipal solid waste supply chain management under an integrated optimization of sustainability targets. Computers and Chemical Engineering, 2022, 160, 107725. | 3.8 | 14 |
| 3 | Accurate Predictions of the Effect of Hydrogen Composition on the Thermodynamics and Transport Properties of Natural Gas. Industrial & Engineering Chemistry Research, 2022, 61, 6214-6234. | 3.7 | 7 |
| 4 | Sustainable optimization of waste management network over extended planning time horizon. AICHE Journal, 2021, 67, e17256. | 3.6 | 2 |
| 5 | An integrated electric vehicle network planning with economic and ecological assessment: Application to the incipient middle Eastern market in transition towards sustainability. Journal of Cleaner Production, 2021, 302, 126980. | 9.3 | 4 |
| 6 | 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. | 3.8 | 17 |
| 7 | Integrated Design and Operation Optimization of Hydrogen Commingled with Natural Gas in Pipeline Networks. Industrial & Engineering Chemistry Research, 2020, 59, 1584-1595. | 3.7 | 10 |
| 8 | 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. | 4.5 | 16 |
| 9 | Sustainable management and design of the energyâ€waterâ€food nexus using a mathematical programming approach. Canadian Journal of Chemical Engineering, 2020, 98, 2056-2078. | 1.7 | 9 |
| 10 | An overview on synthesis and design of microalgal biorefinery configurations by employing superstructure-based optimization approach. Energy Systems, 2019, 10, 941-966. | 3.0 | 13 |
| 11 | Design and Operation Optimization for Water and Power Cogeneration System by Reverse Osmosis and Renewable Energy Technologies. Computer Aided Chemical Engineering, 2019, , 229-234. | 0.5 | O |
| 12 | Environmental Performance of Municipal Solid Waste Processing Pathways. Energy Procedia, 2019, 158, 3363-3368. | 1.8 | 12 |
| 13 | A decomposition algorithm for organic solid waste supply chain optimization under uncertainty. Energy Procedia, 2019, 158, 3284-3289. | 1.8 | 4 |
| 14 | Distributed Estimation and Nonlinear Model Predictive Control Using Community Detection. Industrial & Samp; Engineering Chemistry Research, 2019, 58, 13495-13507. | 3.7 | 28 |
| 15 | A realistic framework to a greener supply chain for electric vehicles. International Journal of Energy Research, 2019, 43, 2369-2390. | 4.5 | 12 |
| 16 | A mixedâ€integer programming approach for clustering demand data for multiscale mathematical programming applications. AICHE Journal, 2019, 65, e16578. | 3.6 | 2 |
| 17 | Graph representation and distributed control of diffusion-convection-reaction system networks. Chemical Engineering Science, 2019, 204, 128-139. | 3.8 | 6 |
| 18 | MINLP Model for Reverse Osmosis Network Design under Time-Variant Operation Constraints. Industrial & Samp; Engineering Chemistry Research, 2019, 58, 22315-22323. | 3.7 | 6 |

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| 19 | Municipality solid waste supply chain optimization to power production under uncertainty. Computers and Chemical Engineering, 2019, 121, 338-353. | 3.8 | 14 |
| 20 | Retrofit Design of Hydrogen Network in Refineries: Mathematical Model and Global Optimization. Industrial & Samp; Engineering Chemistry Research, 2018, 57, 4996-5023. | 3.7 | 21 |
| 21 | Tapping Singular Middle Eastern Ultrasour Gas Resources Combining Membrane and Absorption Systems: Potential for Energy Intensity Reduction. Industrial & Engineering Chemistry Research, 2018, 57, 5748-5763. | 3.7 | 12 |
| 22 | 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. | 9.3 | 57 |
| 23 | Decomposition and Distributed Control of Integrated Lumped and Distributed Parameter Process Networks. , 2018, , . | | 1 |
| 24 | System Decomposition for Distributed Multivariate Statistical Process Monitoring by Performance Driven Agglomerative Clustering. Industrial & Engineering Chemistry Research, 2018, 57, 8283-8298. | 3.7 | 20 |
| 25 | Comparison of life cycle greenhouse gas emissions from unconventional ultra-sour and conventional gas feedstock for power: A case study of the United Arab Emirates. Journal of Cleaner Production, 2018, 197, 908-918. | 9.3 | 6 |
| 26 | Comprehensive study of decomposition effects on distributed output tracking of an integrated process over a wide operating range. Chemical Engineering Research and Design, 2018, 134, 553-563. | 5.6 | 20 |
| 27 | Distributed Model Predictive Control of an Amine Gas Sweetening Plant. Industrial & Engineering Chemistry Research, 2018, 57, 13103-13115. | 3.7 | 21 |
| 28 | 3.18 Energy Production From Oil Sands. , 2018, , 755-787. | | 0 |
| 29 | Assessing the GHG emissions footprints of newly ultra-sour gas developments in the Middle East region for electricity production. Computer Aided Chemical Engineering, 2018, , 91-96. | 0.5 | 0 |
| 30 | Use of reactive distillation in biodiesel production: A simulation-based comparison of energy requirements and profitability indicators. Applied Energy, 2017, 185, 985-997. | 10.1 | 54 |
| 31 | Optimal dynamic operation of microalgae cultivation coupled with recovery of flue gas CO2 and waste heat. Computers and Chemical Engineering, 2017, 105, 317-327. | 3.8 | 14 |
| 32 | Rapid determination of complex oil well cement properties using mathematical models. RSC Advances, 2017, 7, 5148-5157. | 3.6 | 5 |
| 33 | A mathematical model for optimal compression costs in the hydrogen networks for the petroleum refineries. AICHE Journal, 2017, 63, 3925-3943. | 3.6 | 21 |
| 34 | Energy consumption and emission policies for the US and China. Energy Sources, Part B: Economics, Planning and Policy, 2017, 12, 91-95. | 3.4 | 1 |
| 35 | An Optimization Framework for the Climate, Land, Energy, and Water (CLEWS) Nexus by a Discrete Optimization Model. Energy Procedia, 2017, 105, 3232-3238. | 1.8 | 14 |
| 36 | Graph representation and decomposition of ODE/hyperbolic PDE systems. Computers and Chemical Engineering, 2017, 106, 532-543. | 3.8 | 19 |

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| 37 | Impact of Decomposition on Distributed Model Predictive Control: A Process Network Case Study. Industrial & Decomposition on Distributed Model Predictive Control: A Process Network Case Study. Industrial & Decomposition on Distributed Model Predictive Control: A Process Network Case Study. | 3.7 | 53 |
| 38 | Assessing CO2Mitigation Options Utilizing Detailed Electricity Characteristics and Including Renewable Generation. IOP Conference Series: Earth and Environmental Science, 2017, 83, 012019. | 0.3 | 0 |
| 39 | Modularity-based control structure selection for process networks: An extension to distributed parameter systems. , 2017, , . | | 1 |
| 40 | A circular economy solid waste supply chain management based approach under uncertainty. Energy Procedia, 2017, 142, 2971-2976. | 1.8 | 11 |
| 41 | Distributed model predictive control of process networks: Impact of control architecture * *Financial support from the Petroleum Institute, Abu Dhabi, UAE is gratefully acknowledged IFAC-PapersOnLine, 2017, 50, 12452-12457. | 0.9 | 20 |
| 42 | Design and Operation of a Supply Chain Model for Electric and Plug-in Hybrid Electric Vehicles: Snapshot Model. Computer Aided Chemical Engineering, 2017, , 883-888. | 0.5 | 1 |
| 43 | A capacity expansion planning model for integrated water desalination and power supply chain problem. Energy Conversion and Management, 2016, 122, 462-476. | 9.2 | 29 |
| 44 | Environmental and Economics Trade-Offs for the Optimal Design of a Bitumen Upgrading Plant. Industrial & Engineering Chemistry Research, 2016, 55, 11996-12013. | 3.7 | 8 |
| 45 | Review of technologies for biotreatment of refinery wastewaters: progress, challenges and future opportunities. Environmental Technology Reviews, 2016, 5, 12-38. | 4.3 | 34 |
| 46 | Sequential synthesis of heat integrated water networks: A new approach and its application to small and medium sized examples. Computers and Chemical Engineering, 2016, 90, 44-61. | 3.8 | 16 |
| 47 | 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. | 4.4 | 35 |
| 48 | Design of optimization model for a hydrogen supply chain under emission constraints - A case study of Germany. Energy, 2016, 111, 414-429. | 8.8 | 87 |
| 49 | Probing Grain-Boundary Chemistry and Electronic Structure in Proton-Conducting Oxides by Atom Probe Tomography. Nano Letters, 2016, 16, 6924-6930. | 9.1 | 36 |
| 50 | Understanding the Role of Asphaltene in Wettability Alteration Using \hat{I}^{\P} Potential Measurements. Energy & Energy | 5.1 | 10 |
| 51 | Multi-period Optimization Model for the UAE Power Sector. Energy Procedia, 2015, 75, 2791-2797. | 1.8 | 8 |
| 52 | Design optimization model for the United Arab Emirates power sector under uncertainty., 2015,,. | | 0 |
| 53 | A computerâ€nided framework for product design with application to wheat straw polypropylene composites. Canadian Journal of Chemical Engineering, 2015, 93, 2141-2149. | 1.7 | 3 |
| 54 | Synthesis of reverse osmosis desalination network under boron specifications. Desalination, 2015, 371, 26-36. | 8.2 | 22 |

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| 55 | Design and operation of a hydrogen supply chain considering CO<inf>2</inf> mitigation strategies - A case study of the United Arab Emirates. , 2015 , , . | | 0 |
| 56 | Readily processed protonic ceramic fuel cells with high performance at low temperatures. Science, 2015, 349, 1321-1326. | 12.6 | 982 |
| 57 | Modeling of complex dynamic systems using differential neural networks with the incorporation of a priori knowledge. Applied Mathematics and Computation, 2015, 266, 515-526. | 2.2 | 12 |
| 58 | Design multiperiod optimization model for the electricity sector under uncertainty – A case study of the Emirate of Abu Dhabi. Energy Conversion and Management, 2015, 100, 177-190. | 9.2 | 16 |
| 59 | Design optimization model for the integration of renewable and nuclear energy in the United Arab Emirates' power system. Applied Energy, 2015, 148, 234-251. | 10.1 | 27 |
| 60 | Adaptive KPCA Modeling of Nonlinear Systems. IEEE Transactions on Signal Processing, 2015, 63, 2364-2376. | 5.3 | 34 |
| 61 | Generalized mixed-integer nonlinear programming modeling of eco-industrial networks to reduce cost and emissions. Journal of Cleaner Production, 2015, 99, 160-176. | 9.3 | 20 |
| 62 | Biodiesel Production using Reactive Distillation: A Comparative Simulation Study. Energy Procedia, 2015, 75, 17-22. | 1.8 | 27 |
| 63 | Design of a hydrogen supply chain with uncertainty. International Journal of Hydrogen Energy, 2015, 40, 16408-16418. | 7.1 | 71 |
| 64 | Wheat straw fibre size effects on the mechanical properties of polypropylene composites. Canadian Journal of Chemical Engineering, 2014, 92, 1700-1708. | 1.7 | 8 |
| 65 | Design of an energy hub based on natural gas and renewable energy sources. International Journal of Energy Research, 2014, 38, 363-373. | 4.5 | 48 |
| 66 | Optimal design of split partial second pass reverse osmosis network for desalination applications. AICHE Journal, 2014, 60, 520-532. | 3.6 | 28 |
| 67 | Structural optimization of osmosis processes for water and power production in desalination applications. Desalination, 2014, 344, 12-27. | 8.2 | 27 |
| 68 | Optimization of catalyst preparation conditions for direct sodium borohydride fuel cell using response surface methodology. Energy, 2014, 67, 97-105. | 8.8 | 14 |
| 69 | Anomalous low-temperature proton conductivity enhancement in a novel protonic nanocomposite. Physical Chemistry Chemical Physics, 2014, 16, 5076-5080. | 2.8 | 19 |
| 70 | Thermal Management of a Water–Gas-Shift Membrane Reactor for High-Purity Hydrogen Production and Carbon Capture. Industrial & Engineering Chemistry Research, 2014, 53, 7461-7469. | 3.7 | 13 |
| 71 | The influence of South Korean energy policy on OPEC oil exports. Energy Policy, 2014, 67, 572-582. | 8.8 | 7 |
| 72 | Modeling of Hydrogen Networks in a Refinery Using a Stochastic Programming Appraoch. Industrial & Lamp; Engineering Chemistry Research, 2014, 53, 19715-19735. | 3.7 | 25 |

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| 73 | Design and operation of water desalination supply chain using mathematical modelling approach. Desalination, 2014, 351, 184-201. | 8.2 | 28 |
| 74 | Modeling the Impact of Wettability Alterations on Calcium Carbonate System for Crude Oil and Asphaltenic Solutions. Industrial & Engineering Chemistry Research, 2014, 53, 4773-4777. | 3.7 | 7 |
| 7 5 | New Approximation Assisted Multi-objective collaborative Robust Optimization (new AA-McRO) under interval uncertainty. Structural and Multidisciplinary Optimization, 2013, 47, 19-35. | 3.5 | 35 |
| 76 | Numerical simulation of distributed dynamic systems using hybrid intelligent computing combined with generalized similarity analysis. Applied Mathematics and Computation, 2013, 223, 88-100. | 2.2 | 0 |
| 77 | Energy Hub Based on Nuclear Energy and Hydrogen Energy Storage. Industrial & Engineering Chemistry Research, 2013, 52, 7470-7481. | 3.7 | 36 |
| 78 | Stochastic Modeling of the Oil Sands Operations under Greenhouse Gas Emission Restrictions and Water Management. Energy & Energy | 5.1 | 19 |
| 79 | Wastewater Minimization in Pulp and Paper Industries through Energy-Efficient Reverse-Osmosis Membrane Processes. Chemical Engineering and Technology, 2013, 36, 419-425. | 1.5 | 8 |
| 80 | OVERALL INTEGRATION OF THE MANAGEMENT OF H2AND CO2WITHIN REFINERY PLANNING USING RIGOROUS PROCESS MODELS. Chemical Engineering Communications, 2013, 200, 139-161. | 2.6 | 17 |
| 81 | Modeling and control of a water gas shift membrane reactor for hydrogen production. , 2012, , . | | 3 |
| 82 | Impact of Cofiring Ceria in Ni/YSZ SOFC Anodes for Operation With Syngas and n-Butane. Journal of Fuel Cell Science and Technology, 2012, 9 , . | 0.8 | 11 |
| 83 | Design and operation of a stochastic hydrogen supply chain network under demand uncertainty. International Journal of Hydrogen Energy, 2012, 37, 3965-3977. | 7.1 | 126 |
| 84 | Corporate dashboards for integrated business and engineering decisions in oil refineries: An agent-based approach. Decision Support Systems, 2012, 52, 729-741. | 5.9 | 22 |
| 85 | Analysis of Ontario's hydrogen economy demands from hydrogen fuel cell vehicles. International Journal of Hydrogen Energy, 2012, 37, 8905-8916. | 7.1 | 52 |
| 86 | Multi-Objective Robust Optimization Under Interval Uncertainty Using Online Approximation and Constraint Cuts. Journal of Mechanical Design, Transactions of the ASME, 2011, 133, . | 2.9 | 36 |
| 87 | Design and control of energy integrated SOFC systems for in situ hydrogen production and power generation. Computers and Chemical Engineering, 2011, 35, 1691-1704. | 3.8 | 46 |
| 88 | 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 |
| 89 | Approximation Assisted Multi-objective collaborative Robust Optimization (AA-McRO) Under Interval Uncertainty., 2010,,. | | 1 |
| 90 | Improving Multi-Objective Robust Optimization Under Interval Uncertainty Using Worst Possible Point Constraint Cuts., 2009,,. | | 7 |

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| 91 | Design and operation of a future hydrogen supply chain: Multi-period model. International Journal of Hydrogen Energy, 2009, 34, 7883-7897. | 7.1 | 406 |
| 92 | Integrated multi-objective robust optimization and sensitivity analysis with irreducible and reducible interval uncertainty. Engineering Optimization, 2009, 41, 889-908. | 2.6 | 13 |
| 93 | Design and Operation of a Future Hydrogen Supply Chain. Chemical Engineering Research and Design, 2006, 84, 423-438. | 5.6 | 165 |