

Ashish Madhukar Gujarathi

List of Publications by Year in descending order

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31
papers

741
citations

643344

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591227

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all docs

33
docs citations

33
times ranked

683
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-objective Optimization of Brugge Field for Short-Term and Long-Term Waterflood Management. Arabian Journal for Science and Engineering, 2022, 47, 11069-11087.	1.7	9
2	Hybrid optimization approach using evolutionary neural network & genetic algorithm in a real-world waterflood development. Journal of Petroleum Science and Engineering, 2022, 216, 110813.	2.1	13
3	Hybridized multi-objective optimization approach (HMODE) for lysine fed-batch fermentation process. Korean Journal of Chemical Engineering, 2021, 38, 8-21.	1.2	7
4	Evolutionary multi-criteria optimization aspects for sulfuric acid plant toward more economic, environmentally friendly and efficient process. Chemical Papers, 2021, 75, 3649-3666.	1.0	6
5	Simultaneous energy and environment-based optimization and retrofit of TEG dehydration process: An industrial case study. Chemical Engineering Research and Design, 2021, 147, 972-984.	2.7	10
6	Towards process, environment and economic based criteria for multi-objective optimization of industrial acid gas removal process. Journal of Natural Gas Science and Engineering, 2021, 88, 103800.	2.1	10
7	Retrofitting and simultaneous multi-criteria optimization with enhanced performance of an industrial gas-cleaning plant using economic, process safety, and environmental objectives. Journal of Cleaner Production, 2021, 319, 128652.	4.6	11
8	Safety, economics, environment and energy based criteria towards multi-objective optimization of natural gas sweetening process: An industrial case study. Journal of Natural Gas Science and Engineering, 2021, 95, 104207.	2.1	25
9	Hybridization Approach Towards Improving the Performance of Evolutionary Algorithm. Arabian Journal for Science and Engineering, 2020, 45, 11065-11086.	1.7	5
10	Multi-objective optimization of industrial gas-sweetening operations using economic and environmental criteria. Chemical Engineering Research and Design, 2020, 140, 283-298.	2.7	22
11	Towards process, energy and safety based criteria for multi-objective optimization of industrial acid gas removal process. Chemical Engineering Research and Design, 2020, 140, 86-99.	2.7	16
12	Experimental study and analysis of solar still desalination using phase change materials. Journal of Energy Storage, 2019, 26, 100959.	3.9	66
13	Performance of WS ₂ monolayers as a new family of anode materials for metal-ion (mg, Al and ca) batteries. Materials Chemistry and Physics, 2019, 230, 114-121.	2.0	57
14	Thermophysical properties for the binary mixtures of tert-amyl methyl ether with n-hexane, cyclopentane, benzene and m-xylene at different temperatures. Journal of Molecular Liquids, 2018, 252, 475-487.	2.3	5
15	Production of thermotolerant, detergent stable alkaline protease using the gut waste of Sardinella longiceps as a substrate: Optimization and characterization. Scientific Reports, 2018, 8, 12442.	1.6	40
16	Waste office paper: A potential feedstock for cellulase production by a novel strain Bacillus velezensis ASN1. Waste Management, 2018, 79, 491-500.	3.7	44
17	Harmonic multi-objective differential evolution approach for multi-objective optimization of fed-batch bioreactor. Materials and Manufacturing Processes, 2017, 32, 1152-1161.	2.7	9
18	Effect of temperature and diameter of narrow single-walled carbon nanotubes on the viscosity of nanofluid: A molecular dynamics study. Fluid Phase Equilibria, 2017, 434, 193-199.	1.4	14

#	ARTICLE	IF	CITATIONS
19	Modeling and analysis the productivity of solar desalination units with phase change materials. Renewable Energy, 2016, 95, 225-232.	4.3	69
20	Kinetic modeling and simulation: Pyrolysis of Jatropha residue de-oiled cake. Renewable Energy, 2016, 86, 554-562.	4.3	43
21	Optimization of reactor network design problem using Jumping Gene Adaptation of Differential Evolution. Journal of Physics: Conference Series, 2015, 622, 012044.	0.3	3
22	Feasibility of phosphonium-based ionic liquids as solvents for extractive desulfurization of liquid fuels. Fluid Phase Equilibria, 2015, 401, 102-109.	1.4	36
23	Multi-Objective Optimization of Solid State Fermentation Process. Materials and Manufacturing Processes, 2015, 30, 511-519.	2.7	15
24	Multiobjective Optimization of Industrial Naphtha Cracker for Production of Ethylene and Propylene. Materials and Manufacturing Processes, 2013, 28, 803-810.	2.7	16
25	Multi-objective Optimization of Low Density Polyethylene (LDPE) Tubular Reactor Using Strategies of Differential Evolution. Intelligent Systems Reference Library, 2013, , 615-639.	1.0	2
26	Multiobjective Optimization of Industrial Processes Using Elitist Multiobjective Differential Evolution (Elitist-MODE). Materials and Manufacturing Processes, 2011, 26, 455-463.	2.7	26
27	Hybrid multi-objective differential evolution (H-MODE) for optimisation of polyethylene terephthalate (PET) reactor. International Journal of Bio-Inspired Computation, 2010, 2, 213.	0.6	30
28	Multi-objective optimization of industrial styrene reactor: Adiabatic and pseudo-isothermal operation. Chemical Engineering Science, 2010, 65, 2009-2026.	1.9	45
29	Improved Multiobjective Differential Evolution (MODE) Approach for Purified Terephthalic Acid (PTA) Oxidation Process. Materials and Manufacturing Processes, 2009, 24, 303-319.	2.7	43
30	Optimization of Adiabatic Styrene Reactor: A Hybrid Multiobjective Differential Evolution (H-MODE) Approach. Industrial & Engineering Chemistry Research, 2009, 48, 11115-11132.	1.8	36
31	Hybrid Multi-objective Optimization Approach in Water Flooding. Journal of Energy Resources Technology, Transactions of the ASME, 0, , 1-22.	1.4	5