Vahid Pirouzfar

List of Publications by Year
in descending order

60 papers	1,594 citations	257450 24 h-index	330143 37 g-index
64 all docs	64 docs citations	64 times ranked	1001 citing authors

#	Article	IF	Citations
1	Modelling and optimization of main independent parameters for biodiesel production over a <scp>Cu_{0.4}Zn_{0.6}Al₂O₄</scp> catalyst using an <scp>RSM</scp> method. Journal of Chemical Technology and Biotechnology, 2022, 97, 111-119.	3.2	10
2	Conductive poly(Îµâ€caprolactone)/polylactic acid scaffolds for tissue engineering applications: Synergy effect of zirconium nanoparticles and polypyrrole. Polymers for Advanced Technologies, 2022, 33, 1427-1441.	3.2	13
3	Enhancing engine power and torque and reducing exhaust emissions of blended fuels derived from gasoline-propanol-nano particles. Energy, 2022, 241, 122924.	8.8	7
4	Power generation using produced biodiesel from palm oil with GTG, STG and combined cycles; process simulation with economic consideration. Fuel, 2022, 314, 123084.	6.4	4
5	Technical and economic assessment of processes for the LNG production in cycles with expander and refrigeration. Environment, Development and Sustainability, 2022, 24, 13407-13425.	5.0	5
6	Increasing the efficiency of liquefied natural gas production plant with considering appropriate refrigerant components. Environmental Progress and Sustainable Energy, 2022, 41, .	2.3	3
7	Investigation of light aromatics removal from industrial wastewater using nano metal organic framework. Journal of Contaminant Hydrology, 2022, 249, 104048.	3.3	5
8	Improving the gasoline properties by blending butanol-Al2O3 to optimize the engine performance and reduce air pollution. Energy, 2021, 218, 119442.	8.8	30
9	Effect of Singleâ€•and Multiwall Carbon Nanotubes with Activated Carbon on Hydrogen Storage. Chemical Engineering and Technology, 2021, 44, 387-394.	1.5	4
10	Better efficiency for the olefin plant demethanizer tower by replacing trays with packing. International Journal of Chemical Reactor Engineering, 2021, 19, 115-123.	1.1	7
11	Technical, economic and thermodynamic analysis for loading, storing, unloading and transporting of Ethane fluid. Journal of the Taiwan Institute of Chemical Engineers, 2021, 120, 218-228.	5.3	15
12	The technical and economic comparison of ethylene production from natural gas and ethane. International Journal of Chemical Reactor Engineering, 2021, 19, 415-425.	1.1	7
13	Evaluating the Optimal Capacity for the Implementation of Fluidized Catalytic Cracking in the Refinery by the Technical and Economic Analysis. Petroleum Chemistry, 2021, 61, 729-738.	1.4	4
14	Break Even Point analysis of liquefied natural gas process and optimization of its refrigeration cycles with technical and economic considerations. Energy, 2021, 237, 121643.	8.8	13
15	The novel composite membranes containing chloride and acid functionalized multiwall carbon nanotube fillers for gas separation. Colloid and Polymer Science, 2021, 299, 1933-1944.	2.1	1
16	Technological and economical analysis of flare recovery methods, and comparison of different steam and power generation systems. Journal of Thermal Analysis and Calorimetry, 2020, 139, 2399-2411.	3.6	24
17	Industrial optimization of multi-effect desalination equipment for olefin complex. Journal of Thermal Analysis and Calorimetry, 2020, 139, 237-249.	3.6	16
18	Novel nanocomposite membranes-derived poly(4-methyl-1-pentene)/functionalized titanium dioxide to improve the gases transport properties and separation performance. Polymer Bulletin, 2020, 77, 6467-6489.	3.3	11

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19	Technical and economic analysis of acrylonitrile production from polypropylene. Thermal Science and Engineering Progress, 2020, 16, 100463.	2.7	22
20	Effect of synthesizing conditions on the activity of zinc-copper aluminate nanocatalyst prepared by microwave combustion method used in the esterification reaction. Fuel, 2020, 263, 116422.	6.4	27
21	Analysis of Dynamics Targeting CNT-Based Drug Delivery through Lung Cancer Cells: Design, Simulation, and Computational Approach. Membranes, 2020, 10, 283.	3.0	15
22	The technical and economic evaluation of biodiesel production processes from different vegetable oils. Environmental Progress and Sustainable Energy, 2020, 39, e13497.	2.3	7
23	The assessment of honeycomb structure UiO-66 and amino functionalized UiO-66 metalâ€“organic frameworks to modify the morphology and performance of PebaxÂ®1657-based gas separation membranes for CO2 capture applications. Environmental Science and Pollution Research, 2020, 27, 40618-40632.	5.3	23
24	Technical and Economic Analysis of Conventional and Supercritical Transesterification for Biofuel Production. Chemical Engineering and Technology, 2020, 43, 1922-1929.	1.5	16
25	Application of response surface methodology to optimize high active Cu-Zn-Al mixed metal oxide fabricated via microwave-assisted solution combustion method. Advanced Powder Technology, 2020, 31, 1470-1479.	4.1	28
26	LPG-Fueled Vehicles: An Overview of Technology and Market Trend. Automotive Experiences, 2020, 3, 6-19.	0.9	8
27	A comparative technical and economic analysis of different processes for shale gas conversion to high value products. Comptes Rendus Chimie, 2020, 23, 299-314.	0.5	3
28	Investigating the effect of Fe2O3 and TiO2 nanoparticle and engine variables on the gasoline engine performance through statistical analysis. Fuel, 2019, 254, 115618.	6.4	32
29	CO2/N2 Separation Using Polyvinyl Chloride Iso-Phthalic Acid/Aluminium Nitrate Nanocomposite Membrane. Macromolecular Research, 2019, 27, 83-89.	2.4	57
30	Performance analysis and development of a refrigeration cycle through various environmentally friendly refrigerants. Journal of Thermal Analysis and Calorimetry, 2019, 136, 1817-1830.	3.6	24
31	Synthesis and Modification of Zeolite ZSM-5 Catalyst with Solutions of Calcium Carbonate (CaCO3) and Sodium Carbonate (Na2CO3) for Methanol to Gasoline Conversion. International Journal of Chemical Reactor Engineering, 2018, 16, .	1.1	41
32	Effect of operating pressure and pyrolysis conditions on the performance of carbon membranes for CO2/CH4 and O2/N2 separation derived from polybenzimidazole/Matrimid and UIP-S precursor blends. Polymer Bulletin, 2018, 75, 4341-4358.	3.3	12
33	Synthesis of a novel nano-ceramic membrane for hydrogen separation and purification. Journal of the Australian Ceramic Society, 2018, 54, 271-277.	1.9	6
34	Synthesis of modified catalyst and stabilization of CuO/<scp>NH</scp>₄â€<scp>ZSM</scp>â€5 for conversion of methanol to gasoline. International Journal of Applied Ceramic Technology, 2018, 15, 734-741.	2.1	63
35	Preparation and characterization of a novel MMMs by comprising of PSFâ€“HNT/TiO2 nanotubes to reduce organic sediments. Polymer Bulletin, 2018, 75, 2285-2299.	3.3	12
36	Improvement in mechanical properties of polyurethaneâ€urea nanocomposites by using modified SiO₂ nanoparticles. Journal of Applied Polymer Science, 2018, 135, 46707.	2.6	7

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37	Investigating the effect of MgO and CeO2 metal nanoparticle on the gasoline fuel properties: empirical modeling and process optimization by surface methodology. Environmental Science and Pollution Research, 2018, 25, 22889-22902.	5.3	26
38	Investigation on the Effect of Microalgae Chlorella sp. and Spirulina on Biodiesel Production. Petroleum Chemistry, 2018, 58, 702-708.	1.4	18
39	Mathematical Modeling of Ethane Cracking Furnace of Olefin Plant with Coke Formation Approach. International Journal of Chemical Reactor Engineering, 2018, 16, .	1.1	24
40	Modelling and optimization of exhaust pollutants and the properties and characteristics of ethanolâ€diesel through a statistical approach. Canadian Journal of Chemical Engineering, 2017, 95, 1054-1062.	1.7	10
41	Enhanced gas transport properties in silica nanoparticle filler-polystyrene nanocomposite membranes. Colloid and Polymer Science, 2017, 295, 215-226.	2.1	77
42	Technical characterization and economic evaluation of recovery of flare gas in various gas-processing plants. Energy, 2017, 124, 481-491.	8.8	54
43	Comprehensive overview on diesel additives to reduce emissions, enhance fuel properties and improve engine performance. Renewable and Sustainable Energy Reviews, 2017, 74, 891-901.	16.4	134
44	Preparation of Highâ€Performance Membranes Derived from Poly(4â€methylâ€1â€pentene)/Zinc Oxide Particles. Chemical Engineering and Technology, 2017, 40, 1693-1701.	1.5	18
45	The influence of nanoparticles on gas transport properties of mixed matrix membranes: An experimental investigation and modeling. Korean Journal of Chemical Engineering, 2017, 34, 829-843.	2.7	28
46	An experimental study on absorption/stripping CO 2 using mono-ethanol amine hollow fiber membrane contactor. Journal of the Taiwan Institute of Chemical Engineers, 2017, 80, 954-962.	5.3	74
47	Novel nanocomposite membranes prepared with PVC/ABS and silica nanoparticles for C2H6/CH4 separation. Polymer Science - Series A, 2017, 59, 566-574.	1.0	62
48	The Influence of Synthesis Parameters on Vertically Aligned CNT Sheets: Empirical Modeling and Process Optimization Using Response Surface Methodology. Journal of Membrane Biology, 2017, 250, 651-661.	2.1	2
49	Improving the Properties and Engine Performance of Dieselâ€“Methanolâ€“Nanoparticle Blend Fuels via Optimization of the Emissions and Engine Performance. Energy & Fuels, 2016, 30, 8200-8208.	5.1	37
50	Mixed matrix membranes comprising PMP polymer with dispersed alumina nanoparticle fillers to separate CO2/N2. Macromolecular Research, 2016, 24, 782-792.	2.4	45
51	The morphology and gasâ€separation performance of membranes comprising multiwalled carbon nanotubes/polysulfoneâ€Kapton. Journal of Applied Polymer Science, 2016, 133, .	2.6	30
52	The influence of synthesis parameters on the gas selectivity and permeability of carbon membranes: empirical modeling and process optimization using surface methodology. RSC Advances, 2016, 6, 14149-14163.	3.6	27
53	Mathematical modeling and optimization of gas transport through carbon molecular sieve membrane and determining the model parameters using genetic algorithm. Iranian Polymer Journal (English) Tj ETQq1 1 0.784314 rgBT /Overloc	2.4	18
54	Determining the optimum conditions for modified diesel fuel combustion considering its emission, properties and engine performance. Energy Conversion and Management, 2016, 113, 209-219.	9.2	44

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55	Investigating the influence of additives-fuel on diesel engine performance and emissions: Analytical modeling and experimental validation. Fuel, 2016, 171, 167-177.	6.4	68
56	Experimental study, modeling and optimization to improve heat resistance of modified resole-pitch composites. Iranian Polymer Journal (English Edition), 2015, 24, 829-836.	2.4	7
57	Investigating the effect of dianhydride type and pyrolysis condition on the gas separation performance of membranes derived from blended polyimides through statistical analysis. Journal of Industrial and Engineering Chemistry, 2014, 20, 1061-1070.	5.8	40
58	Enhancing the properties and gas separation performance of PBIâ€“polyimides blend carbon molecular sieve membranes via optimization of the pyrolysis process. Separation and Purification Technology, 2014, 122, 278-289.	7.9	105
59	Modeling and optimization of gas transport characteristics of carbon molecular sieve membranes through statistical analysis. Polymer Engineering and Science, 2014, 54, 147-157.	3.1	29
60	Physicochemical Properties and Combustion Performance of Gas Oilâ€“Fuel Additives. Journal of Energy Resources Technology, Transactions of the ASME, 2012, 134, .	2.3	24