# Javad Karimi-Sabet

List of Publications by Year
in descending order



| 58 | 1,521 | 279701 | 330025 |
|---|---|---|---|
| papers | citations | 23 h-index | 37 g-index |

| 58 | 58 | 58 | 1531 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Preparation and Characterization of Polyvinylidene Fluoride/Graphene Superhydrophobic Fibrous Films. Polymers, 2015, 7, 1444-1463. | 2.0 | 114 |
| 2 | Liquid-liquid extraction of calcium using ionic liquids in spiral microfluidics. Chemical Engineering Journal, 2019, 356, 492-505. | 6.6 | 108 |
| 3 | Fabrication of a novel octadecylamine functionalized graphene oxide/PVDF dual-layer flat sheet membrane for desalination via air gap membrane distillation. Desalination, 2018, 428, 227-239. | 4.0 | 87 |
| 4 | Graphene nanosheets preparation using magnetic nanoparticle assisted liquid phase exfoliation of graphite: The coupled effect of ultrasound and wedging nanoparticles. Ultrasonics Sonochemistry, 2018, 44, 204-214. | 3.8 | 85 |
| 5 | Ion-pair extraction-reaction of calcium using Y-shaped microfluidic junctions: An optimized separation approach. Chemical Engineering Journal, 2018, 334, 2603-2615. | 6.6 | 59 |
| 6 | Optimization of graphene production by exfoliation of graphite in supercritical ethanol: A response surface methodology approach. Journal of Supercritical Fluids, 2016, 107, 92-105. | 1.6 | 56 |
| 7 | Preparation and characterization of novel modified PVDF-HFP/GO/ODS composite hollow fiber membrane for Caspian Sea water desalination. Desalination, 2017, 424, 62-73. | 4.0 | 55 |
| 8 | Pressure-driven liquid-liquid separation in Y-shaped microfluidic junctions. Chemical Engineering Journal, 2017, 328, 1075-1086. | 6.6 | 55 |
| 9 | Microfluidic solvent extraction of calcium: Modeling and optimization of the process variables. Separation and Purification Technology, 2020, 231, 115875. | 3.9 | 52 |
| 10 | Experimental and numerical study of air-gap membrane distillation (AGMD): Novel AGMD module for Oxygen-18 stable isotope enrichment. Chemical Engineering Journal, 2017, 322, 667-678. | 6.6 | 51 |
| 11 | Air gap membrane distillation for enrichment of H218O isotopomers in natural water using poly(vinylidene fluoride) nanofibrous membrane. Chemical Engineering and Processing: Process Intensification, 2016, 100, 26-36. | 1.8 | 47 |
| 12 | Preparation and characterization of simvastatin nanoparticles using rapid expansion of supercritical solution (RESS) with trifluoromethane. Journal of Supercritical Fluids, 2016, 107, 469-478. | 1.6 | 45 |
| 13 | Supercritical water gasification of microalga Chlorella PTCC 6010 for hydrogen production: Box-Behnken optimization and evaluating catalytic effect of MnO2/SiO2 and NiO/SiO2. Renewable Energy, 2018, 126, 189-201. | 4.3 | 38 |
| 14 | Experimental and Numerical Simulation of Dry Pressure Drop in Highâ€Capacity Structured Packings. Chemical Engineering and Technology, 2016, 39, 1161-1170. | 0.9 | 36 |
| 15 | Experimental investigation of nanofibrous poly(vinylidene fluoride) membranes for desalination through air gap membrane distillation process. Korean Journal of Chemical Engineering, 2016, 33, 2953-2960. | 1.2 | 36 |
| 16 | Increasing microalgal carbohydrate content for hydrothermal gasification purposes. Renewable Energy, 2018, 116, 710-719. | 4.3 | 34 |
| 17 | Experimental and numerical study of multiphase flow in new wire gauze with high capacity structured packing. Chemical Engineering and Processing: Process Intensification, 2016, 108, 35-43. | 1.8 | 33 |
| 18 | Step-by-step improvement of mixed-matrix nanofiber membrane with functionalized graphene oxide for desalination via air-gap membrane distillation. Separation and Purification Technology, 2021, 256, 117809. | 3.9 | 33 |

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|---|---|---|---|
| 19 | Sonochemical synthesis of novel decorated graphene nanosheets with amine functional Cu-terephthalate MOF for hydrogen adsorption: Effect of ultrasound and graphene content. International Journal of Hydrogen Energy, 2019, 44, 26444-26458. | 3.8 | 32 |
| 20 | Graphene-supported metal nanoparticles as novel catalysts for syngas production using supercritical water gasification of microalgae. Biomass and Bioenergy, 2019, 121, 13-21. | 2.9 | 31 |
| 21 | Evaluation of polymer inclusion membrane efficiency in selective separation of lithium ion from aqueous solution. Separation and Purification Technology, 2020, 251, 117298. | 3.9 | 31 |
| 22 | Influence of hexagonal boron nitride nanosheets as the additives on the characteristics and performance of PVDF for air gap membrane distillation. Desalination, 2019, 460, 81-91. | 4.0 | 28 |
| 23 | Experimental and simulation investigation on separation of binary hydrocarbon mixture by thermogravitational column. Journal of Molecular Liquids, 2018, 268, 791-806. | 2.3 | 26 |
| 24 | STUDY OF SOLUBILITY IN SUPERCRITICAL FLUIDS: THERMODYNAMIC CONCEPTS AND MEASUREMENT METHODS - A REVIEW. Brazilian Journal of Chemical Engineering, 2019, 36, 1367-1392. | 0.7 | 20 |
| 25 | Response surface optimization of hydrothermal synthesis of Bismuth ferrite nanoparticles under supercritical water conditions: Application for photocatalytic degradation of Tetracycline. Environmental Nanotechnology, Monitoring and Management, 2019, 11, 100198. | 1.7 | 19 |
| 26 | Experimental and numerical study of mass transfer efficiency in new wire gauze with high capacity structured packing. Separation Science and Technology, 2019, 54, 2706-2717. | 1.3 | 19 |
| 27 | Optimization of flat sheet hydrophobic membranes synthesis via supercritical CO2 induced phase inversion for direct contact membrane distillation by using response surface methodology (RSM). Journal of Supercritical Fluids, 2015, 103, 105-114. | 1.6 | 17 |
| 28 | Characterization of New Wire Gauze Highâ€Capacity Structured Packing with Varied Inclination Angle. Chemical Engineering and Technology, 2017, 40, 581-587. | 0.9 | 17 |
| 29 | Production of Ibuprofen-Loaded Solid Lipid Nanoparticles Using Rapid Expansion of Supercritical Solution. Journal of Nano Research, 0, 31, 15-29. | 0.8 | 15 |
| 30 | Polyimide based mixed matrix membranes incorporating Cu-BDC nanosheets for impressive helium separation. Separation and Purification Technology, 2020, 253, 117430. | 3.9 | 15 |
| 31 | Application of Response Surface Methodology for Optimization of Paracetamol Particles Formation by RESS Method. Journal of Nanomaterials, 2012, 2012, 1-15. | 1.5 | 14 |
| 32 | Experimental characterization of new wire gauze with high capacity structured packing. Canadian Journal of Chemical Engineering, 2017, 95, 535-542. | 0.9 | 14 |
| 33 | Evolution effects of the copper surface morphology on the nucleation density and growth of graphene domains at different growth pressures. Applied Surface Science, 2017, 399, 542-550. | 3.1 | 13 |
| 34 | Intensification of hydrogen adsorption by novel Cu-BDC@rGO composite material synthesized in a microwave-assisted circular micro-channel. Chemical Engineering and Processing: Process Intensification, 2019, 135, 245-257. | 1.8 | 13 |
| 35 | Numerical study of n-heptane/benzene separation by thermal diffusion column. Chinese Journal of Chemical Engineering, 2019, 27, 1745-1755. | 1.7 | 13 |
| 36 | Dimensionless analysis on liquidâ€“liquid two-phase flow patterns in a numbered-up microfluidic device. Chemical Engineering Journal, 2022, 429, 132428. | 6.6 | 12 |

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|---|---|---|---|
| 37 | Improved method for increasing accessible pores of MIL-101(Cr) by encapsulation and removal of Phosphotungstic acid (PTA): Pd/PTA-MIL-101(Cr) as an effective catalyst for CO oxidation. Journal of Cleaner Production, 2022, 347, 131168. | 4.6 | 12 |
| 38 | Efficient CO oxidation over palladium supported on various MOFs: Synthesis, amorphization, and space velocity of hydrogen stream. International Journal of Hydrogen Energy, 2020, 45, 21450-21463. | 3.8 | 11 |
| 39 | Reactivity and characteristics of Pd/MOF and Pd/calcinated-MOF catalysts for CO oxidation reaction: Effect of oxygen and hydrogen. International Journal of Hydrogen Energy, 2021, 46, 12822-12834. | 3.8 | 11 |
| 40 | Experimental and numerical evaluation of membrane distillation module for oxygen-18 separation. Chemical Engineering Research and Design, 2018, 132, 492-504. | 2.7 | 10 |
| 41 | Improvement of synthesized graphene structure through various solvent liquids at low temperatures by chemical vapor deposition method. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 274, 115458. | 1.7 | 10 |
| 42 | The Effect of Module Geometry on Heat and Mass Transfer in Membrane Distillation. Chemical Product and Process Modeling, 2016, 11, 35-39. | 0.5 | 9 |
| 43 | Life cycle assessment of oxygen-18 production using cryogenic oxygen distillation. Chinese Journal of Chemical Engineering, 2018, 26, 1960-1966. | 1.7 | 9 |
| 44 | The removal of N2O from gas stream by catalytic decomposition over Pt-alkali metal/SiO2. Environmental Technology and Innovation, 2022, 26, 102344. | 3.0 | 9 |
| 45 | Supercritical water hydrothermal synthesis of Bi2O3 nanoparticles: Process optimization using response surface methodology based on population balance equation. Journal of Supercritical Fluids, 2018, 136, 144-156. | 1.6 | 8 |
| 46 | Optimization and modification of PVDF dual-layer hollow fiber membrane for direct contact membrane distillation; application of response surface methodology and morphology study. Korean Journal of Chemical Engineering, 2018, 35, 2241-2255. | 1.2 | 8 |
| 47 | Influence of Particle Size on the Performance of Polysulfone Magnetic Membranes for O<sub>2</sub>/N<sub>2</sub> Separation. Chemical Engineering and Technology, 2020, 43, 2437-2446. | 0.9 | 8 |
| 48 | Theoretical and experimental study of calcium extraction using ionic liquids: COSMO-RS approach. Journal of Molecular Liquids, 2022, 345, 118174. | 2.3 | 8 |
| 49 | CFD simulation of flow distribution in the randomly packed bed Dixon ring. Separation Science and Technology, 2022, 57, 1900-1909. | 1.3 | 7 |
| 50 | <sup>4</sup>He/<sup>3</sup>He separation using oxygen-functionalized nanoporous graphene. Physical Chemistry Chemical Physics, 2019, 21, 12414-12422. | 1.3 | 6 |
| 51 | Experimental study of nitrogen isotope separation by ion-exchange chromatography: effect of process factors. Journal of Radioanalytical and Nuclear Chemistry, 2022, 331, 309-315. | 0.7 | 5 |
| 52 | Graphenylene and inorganic graphenylene nanopores for gas-phase 4He/3He separation: kinetic and steady-state considerations. Physical Chemistry Chemical Physics, 2021, 23, 14706-14715. | 1.3 | 4 |
| 53 | Experimental Study and Numerical Simulation of the Air Gap Membrane Distillation (AGMD) Process. Chemical Product and Process Modeling, 2016, 11, 41-45. | 0.5 | 3 |
| 54 | Appling the computational fluid dynamics studies of the thermogravitational column for N<sub>2</sub>-CO<sub>2</sub> and He-Ar gas mixtures separation. Chemical Product and Process Modeling, 2023, 18, 33-50. | 0.5 | 3 |

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| 55 | Graphene growth with no intended carbon precursor feeding into the LPCVD process: causes, solutions, and effects. Nanotechnology, 2021, 32, 025604. | 1.3 | 2 |
| 56 | Large-Area and Crack-free Helium-Sieving Graphene Membranes. ACS Applied Nano Materials, 0, , . | 2.4 | 2 |
| 57 | Conversion of CO into CO2 by high active and stable PdNi nanoparticles supported on a metal-organic framework. Frontiers of Chemical Science and Engineering, 2022, 16, 1139-1148. | 2.3 | 2 |
| 58 | The strategy of precursors entering furnace for graphene synthesis through the CVD technique. , 0, , 1. | | 1 |