

Javad Karimi-Sabet

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,521
citations

318942

23
h-index

371746

37
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58
all docs

58
docs citations

58
times ranked

1755
citing authors

#	ARTICLE	IF	CITATIONS
1	Applying the computational fluid dynamics studies of the thermogravitational column for N_2 - CO_2 and He-Ar gas mixtures separation. Chemical Product and Process Modeling, 2023, 18, 33-50.	0.5	3
2	Dimensionless analysis on liquid-liquid two-phase flow patterns in a numbered-up microfluidic device. Chemical Engineering Journal, 2022, 429, 132428.	6.6	12
3	Theoretical and experimental study of calcium extraction using ionic liquids: COSMO-RS approach. Journal of Molecular Liquids, 2022, 345, 118174.	2.3	8
4	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
5	CFD simulation of flow distribution in the randomly packed bed Dixon ring. Separation Science and Technology, 2022, 57, 1900-1909.	1.3	7
6	The removal of N_2O from gas stream by catalytic decomposition over Pt-alkali metal/ SiO_2 . Environmental Technology and Innovation, 2022, 26, 102344.	3.0	9
7	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
8	Conversion of CO into CO_2 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
9	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
10	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
11	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
12	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
13	Graphene growth with no intended carbon precursor feeding into the LPCVD process: causes, solutions, and effects. Nanotechnology, 2021, 32, 025604.	1.3	2
14	Microfluidic solvent extraction of calcium: Modeling and optimization of the process variables. Separation and Purification Technology, 2020, 231, 115875.	3.9	52
15	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
16	Polyimide based mixed matrix membranes incorporating Cu-BDC nanosheets for impressive helium separation. Separation and Purification Technology, 2020, 253, 117430.	3.9	15
17	Influence of Particle Size on the Performance of Polysulfone Magnetic Membranes for O_2/N_2 Separation. Chemical Engineering and Technology, 2020, 43, 2437-2446.	0.9	8
18	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

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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. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 26444-26458.	3.8	32
20	⁴ He/ ³ He separation using oxygen-functionalized nanoporous graphene. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 12414-12422.	1.3	6
21	Influence of hexagonal boron nitride nanosheets as the additives on the characteristics and performance of PVDF for air gap membrane distillation. <i>Desalination</i> , 2019, 460, 81-91.	4.0	28
22	Liquid-liquid extraction of calcium using ionic liquids in spiral microfluidics. <i>Chemical Engineering Journal</i> , 2019, 356, 492-505.	6.6	108
23	Graphene-supported metal nanoparticles as novel catalysts for syngas production using supercritical water gasification of microalgae. <i>Biomass and Bioenergy</i> , 2019, 121, 13-21.	2.9	31
24	Response surface optimization of hydrothermal synthesis of Bismuth ferrite nanoparticles under supercritical water conditions: Application for photocatalytic degradation of Tetracycline. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2019, 11, 100198.	1.7	19
25	Intensification of hydrogen adsorption by novel Cu-BDC@rGO composite material synthesized in a microwave-assisted circular micro-channel. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019, 135, 245-257.	1.8	13
26	Numerical study of n-heptane/benzene separation by thermal diffusion column. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 1745-1755.	1.7	13
27	Experimental and numerical study of mass transfer efficiency in new wire gauze with high capacity structured packing. <i>Separation Science and Technology</i> , 2019, 54, 2706-2717.	1.3	19
28	STUDY OF SOLUBILITY IN SUPERCRITICAL FLUIDS: THERMODYNAMIC CONCEPTS AND MEASUREMENT METHODS - A REVIEW. <i>Brazilian Journal of Chemical Engineering</i> , 2019, 36, 1367-1392.	0.7	20
29	Experimental and numerical evaluation of membrane distillation module for oxygen-18 separation. <i>Chemical Engineering Research and Design</i> , 2018, 132, 492-504.	2.7	10
30	Supercritical water hydrothermal synthesis of Bi ₂ O ₃ nanoparticles: Process optimization using response surface methodology based on population balance equation. <i>Journal of Supercritical Fluids</i> , 2018, 136, 144-156.	1.6	8
31	Graphene nanosheets preparation using magnetic nanoparticle assisted liquid phase exfoliation of graphite: The coupled effect of ultrasound and wedging nanoparticles. <i>Ultrasonics Sonochemistry</i> , 2018, 44, 204-214.	3.8	85
32	Life cycle assessment of oxygen-18 production using cryogenic oxygen distillation. <i>Chinese Journal of Chemical Engineering</i> , 2018, 26, 1960-1966.	1.7	9
33	Supercritical water gasification of microalga <i>Chlorella</i> PTCC 6010 for hydrogen production: Box-Behnken optimization and evaluating catalytic effect of MnO ₂ /SiO ₂ and NiO/SiO ₂ . <i>Renewable Energy</i> , 2018, 126, 189-201.	4.3	38
34	Increasing microalgal carbohydrate content for hydrothermal gasification purposes. <i>Renewable Energy</i> , 2018, 116, 710-719.	4.3	34
35	Ion-pair extraction-reaction of calcium using Y-shaped microfluidic junctions: An optimized separation approach. <i>Chemical Engineering Journal</i> , 2018, 334, 2603-2615.	6.6	59
36	Fabrication of a novel octadecylamine functionalized graphene oxide/PVDF dual-layer flat sheet membrane for desalination via air gap membrane distillation. <i>Desalination</i> , 2018, 428, 227-239.	4.0	87

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37	Optimization and modification of PVDF dual-layer hollow fiber membrane for direct contact membrane distillation; application of response surface methodology and morphology study. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 2241-2255.	1.2	8
38	Experimental and simulation investigation on separation of binary hydrocarbon mixture by thermogravitational column. <i>Journal of Molecular Liquids</i> , 2018, 268, 791-806.	2.3	26
39	Experimental and numerical study of air-gap membrane distillation (AGMD): Novel AGMD module for Oxygen-18 stable isotope enrichment. <i>Chemical Engineering Journal</i> , 2017, 322, 667-678.	6.6	51
40	Characterization of New Wire Gauze High-Capacity Structured Packing with Varied Inclination Angle. <i>Chemical Engineering and Technology</i> , 2017, 40, 581-587.	0.9	17
41	Evolution effects of the copper surface morphology on the nucleation density and growth of graphene domains at different growth pressures. <i>Applied Surface Science</i> , 2017, 399, 542-550.	3.1	13
42	Preparation and characterization of novel modified PVDF-HFP/GO/ODS composite hollow fiber membrane for Caspian Sea water desalination. <i>Desalination</i> , 2017, 424, 62-73.	4.0	55
43	Pressure-driven liquid-liquid separation in Y-shaped microfluidic junctions. <i>Chemical Engineering Journal</i> , 2017, 328, 1075-1086.	6.6	55
44	Experimental characterization of new wire gauze with high capacity structured packing. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 535-542.	0.9	14
45	Experimental and numerical study of multiphase flow in new wire gauze with high capacity structured packing. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 108, 35-43.	1.8	33
46	Experimental and Numerical Simulation of Dry Pressure Drop in High-Capacity Structured Packings. <i>Chemical Engineering and Technology</i> , 2016, 39, 1161-1170.	0.9	36
47	Experimental Study and Numerical Simulation of the Air Gap Membrane Distillation (AGMD) Process. <i>Chemical Product and Process Modeling</i> , 2016, 11, 41-45.	0.5	3
48	Experimental investigation of nanofibrous poly(vinylidene fluoride) membranes for desalination through air gap membrane distillation process. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 2953-2960.	1.2	36
49	Air gap membrane distillation for enrichment of H ₂ ¹⁸ O isotopomers in natural water using poly(vinylidene fluoride) nanofibrous membrane. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 100, 26-36.	1.8	47
50	The Effect of Module Geometry on Heat and Mass Transfer in Membrane Distillation. <i>Chemical Product and Process Modeling</i> , 2016, 11, 35-39.	0.5	9
51	Optimization of graphene production by exfoliation of graphite in supercritical ethanol: A response surface methodology approach. <i>Journal of Supercritical Fluids</i> , 2016, 107, 92-105.	1.6	56
52	Preparation and characterization of simvastatin nanoparticles using rapid expansion of supercritical solution (RESS) with trifluoromethane. <i>Journal of Supercritical Fluids</i> , 2016, 107, 469-478.	1.6	45
53	Preparation and Characterization of Polyvinylidene Fluoride/Graphene Superhydrophobic Fibrous Films. <i>Polymers</i> , 2015, 7, 1444-1463.	2.0	114
54	Optimization of flat sheet hydrophobic membranes synthesis via supercritical CO ₂ induced phase inversion for direct contact membrane distillation by using response surface methodology (RSM). <i>Journal of Supercritical Fluids</i> , 2015, 103, 105-114.	1.6	17

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55	Application of Response Surface Methodology for Optimization of Paracetamol Particles Formation by RESS Method. Journal of Nanomaterials, 2012, 2012, 1-15.	1.5	14
56	Production of Ibuprofen-Loaded Solid Lipid Nanoparticles Using Rapid Expansion of Supercritical Solution. Journal of Nano Research, 0, 31, 15-29.	0.8	15
57	The strategy of precursors entering furnace for graphene synthesis through the CVD technique. , 0, , 1.		1
58	Large-Area and Crack-free Helium-Sieving Graphene Membranes. ACS Applied Nano Materials, 0, , .	2.4	2