

Ahmadreza Raisi

List of Publications by Year in descending order

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88
papers

2,799
citations

186265

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189892

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88
docs citations

88
times ranked

3051
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-stage gas separation process for separation of carbon dioxide from methane: Modeling, simulation, and economic analysis. <i>Chemical Engineering and Processing: Process Intensification</i> , 2022, 170, 108676.	3.6	10
2	Separation of nitrogen from methane by multi-stage membrane processes: Modeling, simulation, and cost estimation. <i>Journal of Natural Gas Science and Engineering</i> , 2022, 98, 104380.	4.4	3
3	Study on the advantageous effect of nano-clay and polyurethane on structure and CO ₂ separation performance of polyethersulfone based ternary mixed matrix membranes. <i>Chemical Engineering Research and Design</i> , 2022, 179, 27-40.	5.6	19
4	Evaluation of polyurethane/nylon 6(3) blend membranes for enhanced CO ₂ separation. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	2.6	2
5	Reducing the crystallinity of high molecular weight poly (ethylene oxide) using ultraviolet cross-linking for preparation of gas separation membranes. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50059.	2.6	4
6	A model to predict the solubility and permeability of gaseous penetrant in the glassy polymeric membrane at high pressure. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50548.	2.6	4
7	CO ₂ -selective poly (ether-block-amide)/polyethylene glycol composite blend membrane for CO ₂ separation from gas mixtures. <i>Environmental Science and Pollution Research</i> , 2021, 28, 38274-38291.	5.3	17
8	Industrial wastewater treatment using PES UF membranes containing hydrophilic additives: Experimental and modeling of fouling mechanism. <i>Environmental Technology and Innovation</i> , 2021, 23, 101701.	6.1	14
9	Cross-linking of poly (ether-block-amide) by poly (ethylene glycol) diacrylate to prepare plasticizing-resistant CO ₂ -selective membranes. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105877.	6.7	18
10	Electrospun nanofibrous polyether-block-amide membrane containing silica nanoparticles for water desalination by vacuum membrane distillation. <i>Separation and Purification Technology</i> , 2021, 275, 119149.	7.9	22
11	A hybrid ultrafiltration/nanofiltration/pervaporation membrane process for intensifying the refining of crude canola oil and solvent recovery. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021, 169, 108598.	3.6	4
12	Separation of isobutanol/water mixtures by hybrid distillation-pervaporation process: Modeling, simulation and economic comparison. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020, 155, 108071.	3.6	17
13	UV irradiation-assisted cross-linking of high molecular weight poly (ethylene oxide) with poly (ethylene glycol) diacrylate to prepare CO ₂ selective membranes. <i>Polymer</i> , 2020, 205, 122821.	3.8	7
14	CH ₄ Selective Mixed Matrix Membranes Containing Functionalized Silica for Natural Gas Purification. <i>Chemical Engineering and Technology</i> , 2020, 43, 2167-2180.	1.5	12
15	Surface modification of a PES membrane by corona air plasma-assisted grafting of HB-PEG for separation of oil-in-water emulsions. <i>RSC Advances</i> , 2020, 10, 17143-17153.	3.6	36
16	Superior performance of surface-treated NaX@Pebax-1657 membranes for O ₂ /N ₂ separation. <i>RSC Advances</i> , 2020, 10, 17061-17069.	3.6	11
17	Post-synthesis modification of polyethersulfone membrane by grafting hyperbranched polyethylene glycol for oily wastewater treatment. <i>Research on Chemical Intermediates</i> , 2020, 46, 3227-3245.	2.7	5
18	Thermophysical and rheological properties of sorbitol + ([mmim](MeO) ₂ PO ₂) ionic liquid solutions: Solubility, density and viscosity. <i>Food Chemistry</i> , 2020, 320, 126566.	8.2	10

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19	The impact of carbon monoxide inhalation on developing noise-induced hearing loss in guinea pigs. <i>Medical Gas Research</i> , 2020, 10, 110.	2.3	0
20	Support vector machine-based modeling of grafting hyperbranched polyethylene glycol on polyethersulfone ultrafiltration membrane for separation of oil/water emulsion. <i>Research on Chemical Intermediates</i> , 2019, 45, 5725-5743.	2.7	8
21	A comparative study on pomegranate juice concentration by osmotic distillation and thermal evaporation processes. <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 1474-1481.	2.7	10
22	Comparison of porous and nonporous filler effect on performance of poly (ether-block-amide) mixed matrix membranes for gas separation applications. <i>Chemical Engineering Research and Design</i> , 2019, 147, 545-560.	5.6	44
23	CO ₂ -philic moderate selective layer mixed matrix membranes containing surface functionalized NaX towards highly-efficient CO ₂ capture. <i>RSC Advances</i> , 2019, 9, 15542-15553.	3.6	30
24	Three-component mixed matrix membrane containing [Hmim][PF6] ionic liquid and ZSM-5 nanoparticles based on poly (ether-block-amide) for the pervaporation process. <i>Journal of Molecular Liquids</i> , 2019, 277, 471-480.	4.9	16
25	Modeling of the pervaporation process for isobutanol purification from aqueous solution using intelligent systems. <i>Separation Science and Technology</i> , 2018, 53, 1383-1396.	2.5	3
26	Pervaporation separation of ethyl acetate from aqueous solutions using ZSM-5 filled dual-layer poly(ether-block-amide)/polyethersulfone membrane. <i>RSC Advances</i> , 2018, 8, 4713-4725.	3.6	11
27	A compositional model based on SAFT-VR and Maxwell-Stefan equations for pervaporative separation of aroma compounds from aqueous solutions. <i>Journal of Molecular Liquids</i> , 2018, 250, 212-222.	4.9	5
28	Mixed matrix membrane of ZSM-5/poly (ether-block-amide)/polyethersulfone for pervaporation separation of ethyl acetate from aqueous solution. <i>Microporous and Mesoporous Materials</i> , 2018, 263, 257-267.	4.4	23
29	Modeling of gas solubility and permeability in glassy and rubbery membranes using lattice fluid theory. <i>Polymer</i> , 2017, 115, 184-196.	3.8	17
30	Surface coating of silver nanoparticles on polyethylene for fabrication of antimicrobial milk packaging films. <i>International Journal of Dairy Technology</i> , 2017, 70, 204-211.	2.8	17
31	Preparation of multi-layer pervaporation membrane by electro-spraying of nano zeolite X. <i>Microporous and Mesoporous Materials</i> , 2017, 251, 135-145.	4.4	8
32	Mixed matrix membrane of nano-zeolite NaX/poly (ether-block-amide) for gas separation applications. <i>Journal of Membrane Science</i> , 2016, 510, 270-283.	8.2	166
33	Reducing fouling of polyethersulfone microfiltration membranes by corona air plasma. <i>Desalination and Water Treatment</i> , 2016, 57, 26976-26992.	1.0	20
34	TiO ₂ -induced photo-cross-linked electrospun polyvinyl alcohol nanofibers microfiltration membranes. <i>Polymer</i> , 2016, 99, 642-653.	3.8	25
35	Pebax-1657 mixed matrix membrane containing surface modified multi-walled carbon nanotubes for gas separation. <i>RSC Advances</i> , 2016, 6, 79563-79577.	3.6	71
36	Fabrication of antimicrobial polyethersulfone microfiltration membranes by corona plasma-assisted coating of silver nanoparticles. <i>RSC Advances</i> , 2016, 6, 108113-108124.	3.6	17

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37	A predictive model for gas and vapor sorption into glassy membranes at high pressure. RSC Advances, 2016, 6, 57683-57694.	3.6	8
38	Evaluation of Thermodynamic Models for Prediction of Sorption Behavior into the Polydimethylsiloxane Membrane in Pervaporation Process. Chemical Engineering Communications, 2016, 203, 8-17.	2.6	12
39	Surface modification of polyamide composite membranes by corona air plasma for gas separation applications. RSC Advances, 2015, 5, 19760-19772.	3.6	53
40	A hybrid microfiltration/ultrafiltration membrane process for treatment of oily wastewater. Desalination and Water Treatment, 2015, 55, 901-912.	1.0	29
41	Enhancing the antifouling property of polyethersulfone ultrafiltration membranes using NaX zeolite and titanium oxide nanoparticles. RSC Advances, 2015, 5, 55964-55976.	3.6	40
42	A predictive mass transport model for gas separation using glassy polymer membranes. RSC Advances, 2015, 5, 38223-38234.	3.6	18
43	Synthesis of Nano-NaX Zeolite by Microwave Heating Method for Removal of Lead, Copper, and Cobalt Ions from Aqueous Solution. Journal of Environmental Engineering, ASCE, 2015, 141, .	1.4	13
44	Preparation and characterization of thin film composite reverse osmosis membranes with wet and dry support layer. Desalination and Water Treatment, 2015, 56, 2284-2295.	1.0	13
45	Multilayer mixed matrix membranes containing modified-MWCNTs for dehydration of alcohol by pervaporation process. Desalination, 2015, 355, 45-55.	8.2	57
46	Solubility of Fructose in Water-Ethanol and Water-Methanol Mixtures by Using Hydrogen Bonding Models. Journal of Food Science, 2014, 79, E839-48.	3.1	15
47	Antibacterial nano silver coating on the surface of polyethylene films using corona discharge. Surface and Coatings Technology, 2014, 245, 1-8.	4.8	64
48	Preparation and characterization of nano-NaX zeolite by microwave assisted hydrothermal method. Advanced Powder Technology, 2014, 25, 722-727.	4.1	103
49	Preparation and characterization of polyethersulfone/silver nanocomposite ultrafiltration membrane for antibacterial applications. Polymers for Advanced Technologies, 2014, 25, 711-722.	3.2	37
50	A mass transfer model for pure alcoholic permeation through the PDMS membrane. Desalination and Water Treatment, 2014, 52, 7628-7636.	1.0	1
51	Separation and purification of isobutanol from dilute aqueous solutions by a hybrid hydrophobic/hydrophilic pervaporation process. Chemical Engineering and Processing: Process Intensification, 2014, 77, 22-29.	3.6	30
52	Surface modification of polyethersulfone ultrafiltration membranes by corona plasma-assisted coating TiO ₂ nanoparticles. Journal of Membrane Science, 2014, 461, 69-80.	8.2	109
53	A comparative study on the free volume theories for diffusivity through polymeric membrane in pervaporation process. Journal of Applied Polymer Science, 2014, 131, .	2.6	13
54	Preparation and characterization of polyethylene/silver nanocomposite films with antibacterial activity. Journal of Applied Polymer Science, 2013, 127, 1180-1190.	2.6	47

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55	Computational fluid dynamics modeling of mass transfer for aroma compounds recovery from aqueous solutions by hydrophobic pervaporation. <i>Journal of Food Engineering</i> , 2013, 119, 46-55.	5.2	22
56	Control Size and Stability of Colloidal Silver Nanoparticles with Antibacterial Activity Prepared by a Green Synthesis Method. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2013, 43, 543-551.	0.6	38
57	Mathematical Modeling on Air Drying of Apples Considering Shrinkage and Variable Diffusion Coefficient. <i>Drying Technology</i> , 2013, 31, 40-51.	3.1	73
58	Surface modification of polyethersulfone ultrafiltration membranes by corona air plasma for separation of oil/water emulsions. <i>Journal of Membrane Science</i> , 2013, 430, 24-36.	8.2	196
59	Stimuli-responsive nanofibers prepared from poly(N-isopropylacrylamide-acrylamide-vinylpyrrolidone) by electrospinning as an anticancer drug delivery. <i>Designed Monomers and Polymers</i> , 2013, 16, 515-527.	1.6	66
60	Preparation and characterization of thin film nanocomposite membrane for pervaporative dehydration of aqueous alcohol solutions. <i>Desalination</i> , 2013, 314, 20-27.	8.2	40
61	Heat transfer in Couette-Poiseuille flow between parallel plates of the Giesekus viscoelastic fluid. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2013, 196, 95-101.	2.4	18
62	Treatment of Oily Wastewaters Using the Microfiltration Process: Effect of Operating Parameters and Membrane Fouling Study. <i>Separation Science and Technology</i> , 2013, 48, 1544-1555.	2.5	31
63	CFD modeling of hydrophobic pervaporation process: ethanol/water separation. <i>Desalination and Water Treatment</i> , 2013, 51, 3445-3453.	1.0	11
64	Coating of silver nanoparticles on the polymeric film by corona discharge. , 2012, , .		0
65	Effect of Solvent, Hydrophilic Additives and Corona Treatment on Performance of Polyethersulfone UF Membranes for Oil/Water Separation. <i>Procedia Engineering</i> , 2012, 44, 1539-1541.	1.2	6
66	Cross-Flow Microfiltration Oil-in-Water Emulsion Using Polyvinylidene fluoride Membrane. <i>Procedia Engineering</i> , 2012, 44, 1974-1976.	1.2	3
67	The Effect of TiO ₂ Nanoparticles on PES UF Membrane Fouling in Water-oil Separation. <i>Procedia Engineering</i> , 2012, 44, 1783-1785.	1.2	11
68	A mathematical model for mass transfer in hydrophobic pervaporation for organic compounds separation from aqueous solutions. <i>Journal of Membrane Science</i> , 2012, 423-424, 175-188.	8.2	25
69	Effect of lag time in interfacial polymerization on polyamide composite membrane with different hydrophilic sub layers. <i>Desalination</i> , 2012, 284, 32-41.	8.2	131
70	Removal of styrene from petrochemical wastewater using pervaporation process. <i>Desalination</i> , 2012, 284, 116-121.	8.2	35
71	Mathematical modeling of a time-dependent extractive membrane bioreactor for denitrification of drinking water. <i>Desalination</i> , 2012, 289, 58-65.	8.2	38
72	Pervaporative aroma compounds recovery from lemon juice using poly(octyl methyl siloxane) membrane. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 534-540.	3.2	20

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73	Clarification of tomato juice by cross-flow microfiltration. <i>International Journal of Food Science and Technology</i> , 2011, 46, 138-145.	2.7	15
74	INFLUENCE OF OPERATING PARAMETERS ON CLARIFICATION OF CARROT JUICE BY MICROFILTRATION PROCESS. <i>Journal of Food Process Engineering</i> , 2011, 34, 860-877.	2.9	8
75	Aroma compound recovery by hydrophobic pervaporation: The effect of membrane thickness and coupling phenomena. <i>Separation and Purification Technology</i> , 2011, 82, 53-62.	7.9	57
76	Effect of added NaX nano-zeolite into polyamide as a top thin layer of membrane on water flux and salt rejection in a reverse osmosis process. <i>Journal of Membrane Science</i> , 2011, 375, 88-95.	8.2	304
77	Pervaporative removal of acrylonitrile from aqueous streams through polydimethylsiloxane membrane. <i>Water Science and Technology</i> , 2011, 63, 2820-2826.	2.5	5
78	A predictive mass transfer model for aroma compounds recovery by pervaporation. <i>Journal of Food Engineering</i> , 2009, 95, 305-312.	5.2	40
79	Pervaporation as a means of recovering ethanol from lignocellulosic bioconversions. <i>Desalination</i> , 2009, 247, 509-517.	8.2	14
80	Experimental Study and Mass Transport Modeling of Ethanol Separation from Aqueous Solutions by Pervaporation. <i>Separation Science and Technology</i> , 2009, 44, 3538-3570.	2.5	29
81	An approximate solution for the Couette-Poiseuille flow of the Giesekus model between parallel plates. <i>Rheologica Acta</i> , 2008, 47, 75-80.	2.4	18
82	Multicomponent pervaporation process for volatile aroma compounds recovery from pomegranate juice. <i>Journal of Membrane Science</i> , 2008, 322, 339-348.	8.2	86
83	Recovery of volatile aroma components from orange juice by pervaporation. <i>Journal of Membrane Science</i> , 2007, 303, 154-161.	8.2	72
84	Reduction of the glucose syrup browning rate by the use of modified atmosphere packaging. <i>Journal of Food Engineering</i> , 2007, 80, 370-373.	5.2	10
85	Preparation of Nano Crystalline Titanium Dioxide by Microwave Hydrothermal Method. <i>Advanced Materials Research</i> , 0, 829, 846-850.	0.3	4
86	Dehydration of monohydric alcohols via pervaporation using nano NaX zeolite/polyvinyl alcohol mixed matrix membranes for biofuel production. , 0, 60, 188-199.		2
87	Mathematical modelling of sorption and permeation through composite membrane in pervaporation process. , 0, 72, 61-72.		1
88	Fabrication of PES/NaX nanocomposite nanofibrous adsorbent for the removal of Cu ²⁺ , Co ²⁺ and Fe ²⁺ from aqueous solutions. , 0, 78, 221-230.		2