

Sarah Farrukh

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

761
citations

516561

16
h-index

580701

25
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62
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62
docs citations

62
times ranked

757
citing authors

#	ARTICLE	IF	CITATIONS
1	Waste sugarcane bagasse-derived nanocatalyst for microwave-assisted transesterification: Thermal, kinetic and optimization study. <i>Biofuels, Bioproducts and Biorefining</i> , 2022, 16, 122-141.	1.9	23
2	Future advances and challenges of nanomaterial-based technologies for electromagnetic interference-based technologies: A review. <i>Environmental Research</i> , 2022, 205, 112402.	3.7	17
3	Green synthesized nano-cellulose polyethylene imine-based biological membrane. <i>Food and Chemical Toxicology</i> , 2022, 160, 112773.	1.8	5
4	Experimental investigation of polysulfone modified cellulose acetate membrane for CO ₂ /H ₂ gas separation. <i>Korean Journal of Chemical Engineering</i> , 2022, 39, 189-197.	1.2	11
5	The influence of polymer concentration on the morphology and mechanical properties of asymmetric polyvinyl alcohol (PVA) membrane for O ₂ /N ₂ separation. <i>Polymers and Polymer Composites</i> , 2022, 30, 096739112210900.	1.0	3
6	Environmental treatment and remediation using h-BN based smart and hybrid membrane. <i>Chemosphere</i> , 2022, 305, 135466.	4.2	3
7	Nanotechnology and the Generation of Sustainable Hydrogen. <i>Green Energy and Technology</i> , 2021, , .	0.4	1
8	Gas barrier properties evaluation for boron nitride nanosheets-polymer (polyethylene-terephthalate) composites. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 91-99.	1.6	9
9	Sonochemical synthesis of Co ₃ O ₄ nanoparticles deposited on GO sheets and their potential application as a nanofiller in MMMs for O ₂ /N ₂ separation. <i>RSC Advances</i> , 2021, 11, 19647-19655.	1.7	4
10	Investigation of cellulose acetate/gamma-cyclodextrin MOF based mixed matrix membranes for CO ₂ /CH ₄ gas separation. , 2021, 11, 313-330.		23
11	Performance Analysis of Blended Membranes of Cellulose Acetate with Variable Degree of Acetylation for CO ₂ /CH ₄ Separation. <i>Membranes</i> , 2021, 11, 245.	1.4	11
12	Glycerol Conversion to Solketal: Catalyst and Reactor Design, and Factors Affecting the Yield. <i>ChemBioEng Reviews</i> , 2021, 8, 227-238.	2.6	8
13	Mixed and single gas permeation performance analysis of amino-modified ZIF based mixed matrix membrane. <i>Polymers and Polymer Composites</i> , 2021, 29, S707-S718.	1.0	2
14	Novel Cellulose Triacetate (CTA)/Cellulose Diacetate (CDA) Blend Membranes Enhanced by Amine Functionalized ZIF-8 for CO ₂ Separation. <i>Polymers</i> , 2021, 13, 2946.	2.0	14
15	A comprehensive overview of dual-layer composite membrane for air (O ₂ /N ₂) separation. <i>Polymers and Polymer Composites</i> , 2021, 29, S1630-S1640.	1.0	11
16	Hydrogen Future: Toward Industrial Applications. <i>Green Energy and Technology</i> , 2021, , 105-109.	0.4	0
17	Physisorption. <i>Green Energy and Technology</i> , 2021, , 73-82.	0.4	1
18	Chemisorption. <i>Green Energy and Technology</i> , 2021, , 83-93.	0.4	0

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19	Hydrogen Fuel Cells and Nanotechnology. Green Energy and Technology, 2021, , 95-103.	0.4	2
20	Design and Development of a Computational Tool for a Dialyzer by Using Computational Fluid Dynamic (CFD) Model. Membranes, 2021, 11, 916.	1.4	0
21	Valorization of Solketal Synthesis from Sustainable Biodiesel Derived Glycerol Using Response Surface Methodology. Catalysts, 2021, 11, 1537.	1.6	17
22	Synthesis and gas permeation analysis of TiO ₂ nanotube-embedded cellulose acetate mixed matrix membranes. Chemical Papers, 2020, 74, 821-828.	1.0	9
23	Synthesis and effect of metal-organic frame works on CO ₂ adsorption capacity at various pressures: A contemplating review. Energy and Environment, 2020, 31, 367-388.	2.7	29
24	A comparative study of dynamic adsorption of anionic synthetic and nanocellulose-based surfactant in Malaysian reservoir. Journal of Petroleum Exploration and Production, 2020, 10, 311-318.	1.2	4
25	Development of high performance amine functionalized zeolitic imidazolate framework () Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 <sc> CH ₄ </sc> separation. International Journal of Energy Research, 2020, 44, 7989-7999.	2.2	23
26	Optimization analysis of polyurethane based mixed matrix gas separation membranes by incorporation of gamma-cyclodextrin metal organic frame work. Chemical Papers, 2020, 74, 3527-3543.	1.0	17
27	Mass transfer modelling of hollow fiber membrane contactor for apple juice concentration using osmotic membrane distillation. Separation and Purification Technology, 2020, 250, 117209.	3.9	31
28	Effects of Coagulation Residence Time on the Morphology and Properties of Poly (vinyl) Alcohol (PVA) Asymmetric Membrane via NIPS Method for O ₂ /N ₂ Separation. Journal of Polymers and the Environment, 2020, 28, 2810-2822.	2.4	6
29	Enhancement in the selectivity of O ₂ /N ₂ via ZIF-8/CA mixed-matrix membranes and the development of a thermodynamic model to predict the permeability of gases. Environmental Science and Pollution Research, 2020, 27, 24413-24429.	2.7	12
30	Adsorption of CO ₂ on amine-functionalized green metal-organic framework: an interaction between amine and CO ₂ molecules. Environmental Science and Pollution Research, 2019, 26, 36214-36225.	2.7	20
31	Optimization of Fuel in Saturated Steam Boiler through Preheating of Controlled Air-Fuel Mixture. , 2019, , .		8
32	Improving gas barrier properties with boron nitride nanosheets in polymer-composites. Results in Physics, 2019, 12, 1535-1541.	2.0	19
33	Effect Analysis of Nickel Ferrite (NiFe ₂ O ₄) and Titanium Dioxide (TiO ₂) Nanoparticles on CH ₄ /CO ₂ Gas Permeation Properties of Cellulose Acetate Based Mixed Matrix Membranes. Journal of Polymers and the Environment, 2019, 27, 1449-1464.	2.4	29
34	Carbon capture from natural gas using multi-walled CNTs based mixed matrix membranes. Environmental Technology (United Kingdom), 2019, 40, 843-854.	1.2	19
35	Highly integrated nanocomposites of RGO/TiO ₂ nanotubes for enhanced removal of microbes from water. Environmental Technology (United Kingdom), 2019, 40, 2567-2576.	1.2	13
36	Development of Anti-bacterial PVA/Starch Based Hydrogel Membrane for Wound Dressing. Journal of Polymers and the Environment, 2018, 26, 235-243.	2.4	94

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37	High-pressure absorption study of CO ₂ in aqueous N-methyldiethanolamine (MDEA) and MDEA-piperazine (PZ)-1-butyl-3-methylimidazolium trifluoromethanesulfonate [bmim][OTf] hybrid solvents. <i>Journal of Molecular Liquids</i> , 2018, 249, 1236-1244.	2.3	36
38	Optimization study of polyethylene glycol and solvent system for gas permeation membranes. <i>International Journal of Polymer Analysis and Characterization</i> , 2018, 23, 483-492.	0.9	10
39	Synthesis, Characterization and NH ₃ /N ₂ Gas Permeation Study of Nanocomposite Membranes. <i>Journal of Polymers and the Environment</i> , 2017, 25, 46-55.	2.4	14
40	Comparative CO ₂ Adsorption Analysis in Pure and Amine-Modified Composite Membranes. <i>Polymer-Plastics Technology and Engineering</i> , 2017, 56, 1158-1166.	1.9	1
41	Experimental and prediction of volumetric properties of aqueous solution of (allyltriphenylphosphonium bromide+Triethylene glycol) deep eutectic solvents. <i>Thermochimica Acta</i> , 2017, 657, 123-133.	1.2	24
42	Investigation of various process parameters on the solubility of carbon dioxide in phosphonium-based deep eutectic solvents and their aqueous mixtures: Experimental and modeling. <i>International Journal of Greenhouse Gas Control</i> , 2017, 66, 147-158.	2.3	38
43	Fabrication, characterization and permeation study of ultrafiltration dialysis membranes. <i>Desalination and Water Treatment</i> , 2016, 57, 24799-24806.	1.0	7
44	Fabrication, characterisation and CO ₂ /N ₂ gas permeance study of novel blended membrane. <i>International Journal of Global Warming</i> , 2015, 7, 532.	0.2	1
45	Comparison of silica and novel functionalized silica-based cellulose acetate hybrid membranes in gas permeation study. <i>Journal of Polymer Research</i> , 2015, 22, 1.	1.2	18
46	Two-Stage Membrane System for Post-combustion CO ₂ Capture Application. <i>Energy & Fuels</i> , 2015, 29, 6664-6669.	2.5	46
47	Preparation, characterization, and applicability of novel calix[4]arene-based cellulose acetate membranes in gas permeation. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	25
48	Fabrication and characterization of microfiltration blended membranes. <i>Desalination and Water Treatment</i> , 2014, 52, 1833-1840.	1.0	11
49	Blending of TiO ₂ nanoparticles with cellulose acetate polymer: to study the effect on morphology and gas permeation of blended membranes. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2014, 9, 543-551.	0.8	9
50	A new type of shooting method for nonlinear boundary value problems. <i>AEJ - Alexandria Engineering Journal</i> , 2013, 52, 801-805.	3.4	13
51	MITIGATION OF SLIVERS USING A NEW PROPELLANT GRAIN DESIGN TO IMPROVE PROPULSION SYSTEMS. <i>Aviation</i> , 2012, 16, 76-83.	0.7	0
52	Thickness Effect on Permeance of CO ₂ /CH ₄ Gases in CA Coated PVDF Composite Membranes. <i>Transactions of the Indian Ceramic Society</i> , 0, , 1-7.	0.4	2