

Arshad Hussain

List of Publications by Year in descending order

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75
papers

2,469
citations

331538

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214721

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g-index

76
all docs

76
docs citations

76
times ranked

2735
citing authors

#	ARTICLE	IF	CITATIONS
1	Green synthesized nano-cellulose polyethylene imine-based biological membrane. Food and Chemical Toxicology, 2022, 160, 112773.	1.8	5
2	Experimental investigation of polysulfone modified cellulose acetate membrane for CO ₂ /H ₂ gas separation. Korean Journal of Chemical Engineering, 2022, 39, 189-197.	1.2	11
3	The influence of polymer concentration on the morphology and mechanical properties of asymmetric polyvinyl alcohol (PVA) membrane for O ₂ /N ₂ separation. Polymers and Polymer Composites, 2022, 30, 096739112210900.	1.0	3
4	Environmental treatment and remediation using h-BN based smart and hybrid membrane. Chemosphere, 2022, 305, 135466.	4.2	3
5	Photocatalytic, electrocatalytic and photoelectrocatalytic conversion of carbon dioxide: a review. Environmental Chemistry Letters, 2021, 19, 941-967.	8.3	68
6	Gas barrier properties evaluation for boron nitride nanosheets-polymer (polyethylene-terephthalate) composites. Applied Nanoscience (Switzerland), 2021, 11, 91-99.	1.6	9
7	Carbon dioxide capture using liquid absorption methods: a review. Environmental Chemistry Letters, 2021, 19, 77-109.	8.3	165
8	Investigation of cellulose acetate/γ-cyclodextrin MOF based mixed matrix membranes for CO ₂ /CH ₄ gas separation. , 2021, 11, 313-330.		23
9	Performance Analysis of Blended Membranes of Cellulose Acetate with Variable Degree of Acetylation for CO ₂ /CH ₄ Separation. Membranes, 2021, 11, 245.	1.4	11
10	Role of Catalysis in Biofuels Production Process – A Review. ChemBioEng Reviews, 2021, 8, 417-438.	2.6	4
11	Mixed and single gas permeation performance analysis of amino-modified ZIF based mixed matrix membrane. Polymers and Polymer Composites, 2021, 29, S707-S718.	1.0	2
12	A comprehensive overview of dual-layer composite membrane for air (O ₂ /N ₂) separation. Polymers and Polymer Composites, 2021, 29, S1630-S1640.	1.0	11
13	Steam gasification of municipal solid waste for hydrogen production using Aspen Plus® simulation. Discover Chemical Engineering, 2021, 1, 1.	1.1	8
14	Phosphorylated nanocellulose fibrils/PVA nanocomposite membranes for biogas upgrading at higher pressure. Separation Science and Technology, 2020, 55, 1524-1534.	1.3	19
15	Synthesis and gas permeation analysis of TiO ₂ nanotube-embedded cellulose acetate mixed matrix membranes. Chemical Papers, 2020, 74, 821-828.	1.0	9
16	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
17	Quantitative analysis of product quality of naphtha reforming process under uncertain process conditions. Chemical Engineering Communications, 2020, 207, 1092-1102.	1.5	3
18	PVA/starch/propolis/anthocyanins rosemary extract composite films as active and intelligent food packaging materials. Journal of Food Safety, 2020, 40, e12725.	1.1	81

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19	Enhancing the Thermal, Mechanical and Swelling Properties of PVA/Starch Nanocomposite Membranes Incorporating g-C3N4. <i>Journal of Polymers and the Environment</i> , 2020, 28, 100-115.	2.4	37
20	Computational Fluid Dynamics (CFD) Modeling and Simulation of Flow Regulatory Mechanism in Artificial Kidney Using Finite Element Method. <i>Membranes</i> , 2020, 10, 139.	1.4	6
21	Lightweight protective configurations against blast and fragments impact: Experimental and numerical studies. <i>AIP Advances</i> , 2020, 10, 095221.	0.6	7
22	Development of high performance amine functionalized zeolitic imidazolate framework (ZIF-8) for CO ₂ /CH ₄ separation. <i>International Journal of Energy Research</i> , 2020, 44, 7989-7999.	2.2	23
23	Optimization analysis of polyurethane based mixed matrix gas separation membranes by incorporation of gamma-cyclodextrin metal organic framework. <i>Chemical Papers</i> , 2020, 74, 3527-3543.	1.0	17
24	Coating materials for slow release of nitrogen from urea fertilizer: a review. <i>Journal of Plant Nutrition</i> , 2020, 43, 1510-1533.	0.9	87
25	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. <i>Journal of Polymers and the Environment</i> , 2020, 28, 2810-2822.	2.4	6
26	In-vitro and in-vivo study of superabsorbent PVA/Starch/g-C3N4/Ag@TiO ₂ NPs hydrogel membranes for wound dressing. <i>European Polymer Journal</i> , 2020, 130, 109650.	2.6	75
27	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. <i>Environmental Science and Pollution Research</i> , 2020, 27, 24413-24429.	2.7	12
28	A review on coal fly ash-based adsorbents for mercury and arsenic removal. <i>Journal of Cleaner Production</i> , 2020, 267, 122143.	4.6	106
29	Effect of ultra-violet cross-linking on the properties of boric acid and glycerol co-plasticized thermoplastic starch films. <i>Food Packaging and Shelf Life</i> , 2019, 19, 184-192.	3.3	21
30	Recent developments on gas-solid heterogeneous oxidation removal of elemental mercury from flue gas. <i>Environmental Chemistry Letters</i> , 2019, 17, 19-47.	8.3	53
31	A Computational Fluid Dynamics Approach for the Modeling of Gas Separation in Membrane Modules. <i>Processes</i> , 2019, 7, 420.	1.3	14
32	Adsorption of CO ₂ on amine-functionalized green metal-organic framework: an interaction between amine and CO ₂ molecules. <i>Environmental Science and Pollution Research</i> , 2019, 26, 36214-36225.	2.7	20
33	Improving gas barrier properties with boron nitride nanosheets in polymer-composites. <i>Results in Physics</i> , 2019, 12, 1535-1541.	2.0	19
34	Fabrication of Cellulose Acetate/Polyaziridine Blended Flat Sheet Membranes for Dialysis Application. <i>BioNanoScience</i> , 2019, 9, 256-265.	1.5	10
35	Slow-release urea fertilizer from sulfur, gypsum, and starch-coated formulations. <i>Journal of Plant Nutrition</i> , 2019, 42, 1218-1229.	0.9	21
36	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. <i>Journal of Polymers and the Environment</i> , 2019, 27, 1449-1464.	2.4	29

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37	Synergistic effect on co-pyrolysis of rice husk and sewage sludge by thermal behavior, kinetics, thermodynamic parameters and artificial neural network. <i>Waste Management</i> , 2019, 85, 131-140.	3.7	157
38	Electrochemical study of magnetic nanogel designed for controlled release of chlorhexidine gluconate. <i>Electrochimica Acta</i> , 2019, 295, 113-123.	2.6	10
39	Carbon capture from natural gas using multi-walled CNTs based mixed matrix membranes. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 843-854.	1.2	19
40	Removal of elemental mercury from flue gas using red mud impregnated by KBr and KI reagent. <i>Chemical Engineering Journal</i> , 2018, 341, 483-494.	6.6	84
41	Preparation and characterization of PVA/nanocellulose/Ag nanocomposite films for antimicrobial food packaging. <i>Carbohydrate Polymers</i> , 2018, 184, 453-464.	5.1	302
42	Synthesis of carbon nanomaterials from different pyrolysis techniques: a review. <i>Materials Research Express</i> , 2018, 5, 052002.	0.8	61
43	A review on modification methods of adsorbents for elemental mercury from flue gas. <i>Chemical Engineering Journal</i> , 2018, 346, 692-711.	6.6	147
44	Influence of Amphiphilic Plasticizer on Properties of Thermoplastic Starch Films. <i>Polymer-Plastics Technology and Engineering</i> , 2018, 57, 17-27.	1.9	10
45	Development of Anti-bacterial PVA/Starch Based Hydrogel Membrane for Wound Dressing. <i>Journal of Polymers and the Environment</i> , 2018, 26, 235-243.	2.4	94
46	Cellulose acetate/sericin blend membranes for use in dialysis. <i>Polymer Bulletin</i> , 2018, 75, 3935-3950.	1.7	13
47	Numerical and experimental study of wave shaper effects on detonation wave front. <i>Defence Technology</i> , 2018, 14, 45-50.	2.1	13
48	Synthesis and characterization of zinc-coated urea fertilizer. <i>Journal of Plant Nutrition</i> , 2018, 41, 1625-1635.	0.9	26
49	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
50	Fabrication and characterization of cellulose acetate/hydroxyapatite composite membranes for the solute separations in Hemodialysis. <i>Polymer Bulletin</i> , 2018, 75, 1197-1210.	1.7	10
51	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
52	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
53	Influence of carboxylic acids on mechanical properties of thermoplastic starch by spray drying. <i>Fibers and Polymers</i> , 2017, 18, 64-73.	1.1	4
54	A computational fluid dynamics (CFD) approach for the modeling of flux in a polymeric membrane using finite volume method. <i>Mechanics and Industry</i> , 2017, 18, 406.	0.5	3

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55	Catalytic Pyrolysis Of Botryococcus Braunii (microalgae) Over Layered and Delaminated Zeolites For Aromatic Hydrocarbon Production. Energy Procedia, 2017, 142, 381-385.	1.8	32
56	Computational Fluid Dynamics (CFD) Simulation and Comparison for Different Numbers of Baffles to Reduce Concentration Polarization Effects in Membrane Tubes. Journal of Engineering and Technological Sciences, 2017, 49, 114-131.	0.3	3
57	Effect of Concentration of Surfactant on the Exfoliation of Graphite to Graphene in Aqueous Media. Nanomaterials and Nanotechnology, 2016, 6, 14.	1.2	16
58	Computational fluid dynamics (CFD) modeling of heat transfer in a polymeric membrane using finite volume method. Journal of Thermal Science, 2016, 25, 564-570.	0.9	8
59	The effect of graphene nanosheets on the mechanical properties of polyvinylchloride. Polymer Composites, 2016, 37, 1572-1576.	2.3	17
60	Fabrication, characterization and permeation study of ultrafiltration dialysis membranes. Desalination and Water Treatment, 2016, 57, 24799-24806.	1.0	7
61	The effect of large area graphene oxide (LAGO) nanosheets on the mechanical properties of polyvinyl alcohol. Journal of Polymer Engineering, 2016, 36, 399-405.	0.6	4
62	SYNTHESIS AND CHARACTERIZATION OF POLYMER MEMBRANES FOR HEMODIALYSIS. Journal of Porous Media, 2016, 19, 557-565.	1.0	0
63	Fabrication, characterisation and CO ₂ /N ₂ gas permeance study of novel blended membrane. International Journal of Global Warming, 2015, 7, 532.	0.2	1
64	Comparison of silica and novel functionalized silica-based cellulose acetate hybrid membranes in gas permeation study. Journal of Polymer Research, 2015, 22, 1.	1.2	18
65	CO ₂ adsorption using TiO ₂ composite polymeric membranes: A kinetic study. Journal of Environmental Sciences, 2015, 35, 163-171.	3.2	17
66	Two-Stage Membrane System for Post-combustion CO ₂ Capture Application. Energy & Fuels, 2015, 29, 6664-6669.	2.5	46
67	Preparation, characterization, and applicability of novel calix[4]arene-based cellulose acetate membranes in gas permeation. Journal of Applied Polymer Science, 2014, 131, .	1.3	25
68	Fabrication and characterization of microfiltration blended membranes. Desalination and Water Treatment, 2014, 52, 1833-1840.	1.0	11
69	Effects of selected size of graphene nanosheets on the mechanical properties of polyacrylonitrile polymer. Fibers and Polymers, 2014, 15, 2040-2044.	1.1	11
70	Blending of TiO ₂ nanoparticles with cellulose acetate polymer: to study the effect on morphology and gas permeation of blended membranes. Asia-Pacific Journal of Chemical Engineering, 2014, 9, 543-551.	0.8	9
71	TECHNO-ECONOMIC ANALYSIS OF CO ₂ CAPTURE FROM FLUE GAS BY AMINE ABSORPTION AND MEMBRANE TECHNOLOGY. International Journal of Energy for A Clean Environment, 2013, 14, 257-273.	0.6	3
72	A Single Stage Membrane Process for CO ₂ Capture from Flue Gas by a Facilitated Transport Membrane. Separation Science and Technology, 2012, 47, 1857-1865.	1.3	15

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73	A feasibility study of CO ₂ capture from flue gas by a facilitated transport membrane. Journal of Membrane Science, 2010, 359, 140-148.	4.1	203
74	Experimental Study of Solubility of Natural Gas Components in Aqueous Solutions of Ethylene Glycol at Low-Temperature and High-Pressure Conditions. Journal of Chemical & Engineering Data, 2007, 52, 1741-1746.	1.0	16
75	Thickness Effect on Permeance of CO ₂ /CH ₄ Gases in CA Coated PVDF Composite Membranes. Transactions of the Indian Ceramic Society, 0, , 1-7.	0.4	2