Dipak Rana

List of Publications by Citations

163 papers	5,717 citations	44 h-index	64 g-index
168 ext. papers	6,911 ext. citations	6.5 avg, IF	6.35 L-index

#	Paper	IF	Citations
163	Insight Studies on Metal-Organic Framework Nanofibrous Membrane Adsorption and Activation for Heavy Metal Ions Removal from Aqueous Solution. *ACS Applied Materials & Interfaces*, **2018**, 10, 18619-18629	9.5	193
162	Metal□rganic frameworks supported on nanofibers to remove heavy metals. *Journal of Materials Chemistry A*, **2018**, 6, 4550-4555	13	183
161	Strategies for effective oral insulin delivery with modified chitosan nanoparticles: A review. *Progress in Polymer Science*, **2012**, 37, 1457-1475	29.6	153
160	Influence of electrospun fiber size on the separation efficiency of thin film nanofiltration composite membrane. *Journal of Membrane Science*, **2012**, 392-393, 101-111	9.6	134
159	Effects of superhydrophobic SiO2 nanoparticles on the performance of PVDF flat sheet membranes for vacuum membrane distillation. *Desalination*, **2015**, 373, 47-57	10.3	123
158	Effects of operating parameters and coexisting ions on the efficiency of heavy metal ions removal by nano-fibrous metal-organic framework membrane filtration process. *Science of the Total Environment*, **2019**, 674, 355-362	10.2	109
157	Development of antifouling thin-film-composite membranes for seawater desalination. *Journal of Membrane Science*, **2011**, 367, 110-118	9.6	107
156	Experiment and modeling for flux and permeate concentration of heavy metal ion in adsorptive membrane filtration using a metal-organic framework incorporated nanofibrous membrane. *Chemical Engineering Journal*, **2018**, 352, 737-744	14.7	97
155	Effect of poly(vinyl pyrrolidone) on the morphology and physical properties of poly(vinyl alcohol)/sodium montmorillonite nanocomposite films. *Progress in Natural Science: Materials International*, **2013**, 23, 579-587	3.6	95
154	Layered double hydroxides as effective carrier for anticancer drugs and tailoring of release rate through interlayer anions. *Journal of Controlled Release*, **2016**, 224, 186-198	11.7	90
153	Anticancer (in vitro) and antimicrobial effect of gold nanoparticles synthesized using Abelmoschus esculentus (L.) pulp extract via a green route. *RSC Advances*, **2014**, 4, 37838	3.7	88
152	Towards antibiofouling ultrafiltration membranes by blending silver containing surface modifying macromolecules. *Chemical Communications*, **2012**, 48, 693-5	5.8	82
151	Tailored polymer nanocomposite membranes based on carbon, metal oxide and silicon nanomaterials: a review. *Journal of Materials Chemistry A*, **2019**, 7, 8723-8745	13	79
150	Enhanced performance of PVDF nanocomposite membrane by nanofiber coating: A membrane for sustainable desalination through MD. *Water Research*, **2016**, 89, 39-49	12.5	75
149	Comparison of cellulose acetate (CA) membrane and novel CA membranes containing surface modifying macromolecules to remove pharmaceutical and personal care product micropollutants from drinking water. *Journal of Membrane Science*, **2012**, 409-410, 346-354	9.6	74
148	Prediction of emissions and performance of a diesel engine fueled with n-octanol/diesel blends using response surface methodology. *Journal of Cleaner Production*, **2018**, 184, 423-439	10.3	73
147	Review: the characterization of electrospun nanofibrous liquid filtration membranes. *Journal of Materials Science*, **2014**, 49, 6143-6159	4.3	73

146	Effect of xanthan gum and guar gum on in situ gelling ophthalmic drug delivery system based on poloxamer-407. *International Journal of Biological Macromolecules*, **2013**, 62, 117-23	7.9	72
145	Studies on synthesis of reduced graphene oxide (RGO) via green route and its electrical property. *Materials Research Bulletin*, **2016**, 79, 41-51	5.1	69
144	Development of novel charged surface modifying macromolecule blended PES membranes to remove EDCs and PPCPs from drinking water sources. *Journal of Materials Chemistry A*, **2014**, 2, 10059-10072	13	69
143	Studies on methylcellulose/pectin/montmorillonite nanocomposite films and their application possibilities. *Carbohydrate Polymers*, **2016**, 136, 1218-27	10.3	68
142	Preparation and characterization of surface modified electrospun membranes for higher filtration flux. *Journal of Membrane Science*, **2012**, 390-391, 235-242	9.6	67
141	Effects of hydrophilic CuO nanoparticles on properties and performance of PVDF VMD membranes. *Desalination*, **2015**, 369, 75-84	10.3	66
140	Enhancements of Catalyst Distribution and Functioning Upon Utilization of Conducting Polymers as Supporting Matrices in DMFCs: A Review. *Polymer Reviews*, **2015**, 55, 1-56	14	66
139	Effects of Inorganic Nano-Additives on Properties and Performance of Polymeric Membranes in Water Treatment. *Separation and Purification Reviews*, **2016**, 45, 141-167	7.3	65
138	Metal-Organic Frameworks Supported on Nanofiber for Desalination by Direct Contact Membrane Distillation. *ACS Applied Materials & Interfaces*, **2018**, 10, 11251-11260	9.5	64
137	Nano CuO/g-CN sheets-based ultrafiltration membrane with enhanced interfacial affinity, antifouling and protein separation performances for water treatment application. *Journal of Environmental Sciences*, **2019**, 82, 57-69	6.4	62
136	Removal of disinfection byproducts from water by carbonized electrospun nanofibrous membranes. *Separation and Purification Technology*, **2010**, 74, 202-212	8.3	60
135	Jute cellulose nano-fibrils/hydroxypropylmethylcellulose nanocomposite: A novel material with potential for application in packaging and transdermal drug delivery system. *Industrial Crops and Products*, **2018**, 112, 633-643	5.9	58
134	Studies on green synthesized silver nanoparticles using Abelmoschus esculentus (L.) pulp extract having anticancer (in vitro) and antimicrobial applications. *Arabian Journal of Chemistry*, **2019**, 12, 2572-2584	5.9	58
133	Biodegradable toughened nanohybrid shape memory polymer for smart biomedical applications. *Nanoscale*, **2018**, 10, 9917-9934	7.7	57
132	Reversible Bidirectional Shape Memory Effect in Polyurethanes through Molecular Flipping. *Macromolecules*, **2016**, 49, 4889-4897	5.5	57
131	Preparation of ZnIn2S4/K2La2Ti3O10 composites and their photocatalytic H2 evolution from aqueous Na2S/Na2SO3 under visible light irradiation. *Catalysis Communications*, **2014**, 48, 55-59	3.2	54
130	In situ synthesis of a reduced graphene oxide/cuprous oxide nanocomposite: a reusable catalyst. *RSC Advances*, **2014**, 4, 52044-52052	3.7	49
129	Study on structure and vacuum membrane distillation performance of PVDF membranes: II. Influence of molecular weight. *Chemical Engineering Journal*, **2015**, 276, 174-184	14.7	48

128	Enhanced visible-light-responsive photocatalytic property of PbS-sensitized K4Nb6O17 nanocomposite photocatalysts. *Applied Surface Science*, **2013**, 276, 823-831	6.7	48
127	Study on the structure and vacuum membrane distillation performance of PVDF composite membranes: I. Influence of blending. *Separation and Purification Technology*, **2014**, 133, 303-312	8.3	47
126	Physical and electrochemical characterization of reduced graphene oxide/silver nanocomposites synthesized by adopting a green approach. *RSC Advances*, **2015**, 5, 25357-25364	3.7	46
125	Influence of surface modifying macromolecules on the surface properties of poly(ether sulfone) ultra-filtration membranes. *Journal of Membrane Science*, **2009**, 338, 84-91	9.6	46
124	Antibacterial activity of Ag-Au alloy NPs and chemical sensor property of Au NPs synthesized by dextran. *Carbohydrate Polymers*, **2014**, 107, 151-7	10.3	45
123	Taro corms mucilage/HPMC based transdermal patch: an efficient device for delivery of diltiazem hydrochloride. *International Journal of Biological Macromolecules*, **2014**, 66, 158-65	7.9	45
122	Tailored SPVdF-co-HFP/SGO nanocomposite proton exchange membranes for direct methanol fuel cells. *Polymer*, **2018**, 140, 22-32	3.9	44
121	Synthesis and characterization of graphene from waste dry cell battery for electronic applications. *RSC Advances*, **2016**, 6, 10557-10564	3.7	44
120	Antimicrobial activity and biodegradation behavior of poly(butylene adipate-co-terephthalate)/clay nanocomposites. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	44
119	Using renewable n-octanol in a non-road diesel engine with some modifications. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2019**, 41, 1194-1208	1.6	44
118	Effects of hydrophilic silica nanoparticles and backing material in improving the structure and performance of VMD PVDF membranes. *Separation and Purification Technology*, **2016**, 157, 60-71	8.3	43
117	Cellulose nanofibrils/chitosan based transdermal drug delivery vehicle for controlled release of ketorolac tromethamine. *New Journal of Chemistry*, **2017**, 41, 15312-15319	3.6	43
116	Effect of gellan gum on the thermogelation property and drug release profile of Poloxamer 407 based ophthalmic formulation. *International Journal of Biological Macromolecules*, **2017**, 102, 258-265	7.9	42
115	Synergistic effect of salt mixture on the gelation temperature and morphology of methylcellulose hydrogel. *International Journal of Biological Macromolecules*, **2012**, 51, 831-6	7.9	41
114	Pharmaceutical and personal care products removal from drinking water by modified cellulose acetate membrane: Field testing. *Chemical Engineering Journal*, **2013**, 225, 848-856	14.7	40
113	Synthesis of PbSR2La2Ti3O10 composite and its photocatalytic activity for hydrogen production. *Progress in Natural Science: Materials International*, **2012**, 22, 120-125	3.6	39
112	Effect of clay concentration on morphology and properties of hydroxypropylmethylcellulose films. *Carbohydrate Polymers*, **2013**, 96, 57-63	10.3	39
111	Studies of the kinetics and mechanism of the removal process of proflavine dye through adsorption by graphene oxide. *Journal of Molecular Liquids*, **2017**, 230, 696-704	6	37

110	Effects of multi-walled carbon nanotubes (MWCNTs) and integrated MWCNTs/SiO2 nano-additives on PVDF polymeric membranes for vacuum membrane distillation. *Separation and Purification Technology*, **2019**, 217, 154-163	8.3	37
109	Polydopamine layered poly (ether imide) ultrafiltration membranes tailored with silver nanoparticles designed for better permeability, selectivity and antifouling. *Journal of Industrial and Engineering Chemistry*, **2019**, 76, 141-149	6.3	36
108	Functionalized poly(vinylidene fluoride) nanohybrid for superior fuel cell membrane. *Journal of Membrane Science*, **2015**, 481, 124-136	9.6	36
107	Engineered Cellular Uptake and Controlled Drug Delivery Using Two Dimensional Nanoparticle and Polymer for Cancer Treatment. *Molecular Pharmaceutics*, **2018**, 15, 679-694	5.6	36
106	Tailored PVDF nanocomposite membranes using exfoliated MoS2 nanosheets for improved permeation and antifouling performance. *New Journal of Chemistry*, **2017**, 41, 14315-14324	3.6	35
105	Graphene Oxide Nanocomposite Incorporated Poly(ether imide) Mixed Matrix Membranes for in Vitro Evaluation of Its Efficacy in Blood Purification Applications. *Industrial & Engineering Chemistry Research*, **2015**, 54, 7899-7913	3.9	35
104	Green synthesis of cadmium oxide decorated reduced graphene oxide nanocomposites and its electrical and antibacterial properties. *Materials Science and Engineering C*, **2019**, 99, 696-709	8.3	34
103	Custom-made sulfonated poly (ether sulfone) nanocomposite proton exchange membranes using exfoliated molybdenum disulfide nanosheets for DMFC applications. *Polymer*, **2018**, 147, 48-55	3.9	34
102	Effect of methyl cellulose on gelation behavior and drug release from poloxamer based ophthalmic formulations. *International Journal of Biological Macromolecules*, **2015**, 72, 706-10	7.9	33
101	Studies on carboxylated graphene oxide incorporated polyetherimide mixed matrix ultrafiltration membranes. *Materials Chemistry and Physics*, **2017**, 186, 146-158	4.4	33
100	Bio-derived cellulose nanofibril reinforced poly(N-isopropylacrylamide)-g-guar gum nanocomposite: An avant-garde biomaterial as a transdermal membrane. *Polymer*, **2018**, 135, 85-102	3.9	32
99	Tailoring the Efficacy of Multifunctional Biopolymeric Graphene Oxide Quantum Dot-Based Nanomaterial as Nanocargo in Cancer Therapeutic Application. *ACS Biomaterials Science and Engineering*, **2018**, 4, 514-531	5.5	32
98	Influence of graphene on self-assembly of polyurethane and evaluation of its biomedical properties. *Polymer*, **2015**, 65, 183-192	3.9	31
97	Effect of PVA on the gel temperature of MC and release kinetics of KT from MC based ophthalmic formulations. *International Journal of Biological Macromolecules*, **2012**, 50, 565-72	7.9	31
96	Relationship between surface structure and separation performance of poly(ether sulfone) ultra-filtration membranes blended with surface modifying macromolecules. *Separation and Purification Technology*, **2010**, 72, 123-132	8.3	31
95	The heat and mass transfer of vacuum membrane distillation: Effect of active layer morphology with and without support material. *Separation and Purification Technology*, **2016**, 164, 56-62	8.3	30
94	Synthesis of methylcellulose/cellulose nano-crystals nanocomposites: Material properties and study of sustained release of ketorolac tromethamine. *Carbohydrate Polymers*, **2018**, 188, 168-180	10.3	29
93	Superior biomaterials using diamine modified graphene grafted polyurethane. *Polymer*, **2016**, 106, 109-119	3.9	29

92	Separation of oil/water emulsions using nano MgO anchored hybrid ultrafiltration membranes for environmental abatement. *Journal of Applied Polymer Science*, **2016**, 133, n/a-n/a	2.9	29
91	Nanocomposite films based on cellulose acetate/polyethylene glycol/modified montmorillonite as nontoxic active packaging material. *RSC Advances*, **2016**, 6, 92569-92578	3.7	29
90	Investigation on sodium benzoate release from poly(butylene adipate-co-terephthalate)/organoclay/sodium benzoate based nanocomposite film and their antimicrobial activity. *Journal of Food Science*, **2015**, 80, E602-9	3.4	28
89	Polymer Electrolyte Membranes for Microbial Fuel Cells: A Review. *Polymer Reviews*, **2018**, 58, 610-629	14	28
88	Green synthesis of silver nanoparticles-based nanofluids and investigation of their antimicrobial activities. *Microfluidics and Nanofluidics*, **2014**, 16, 541-551	2.8	28
87	Green Synthesis of Silver Nanoparticles Using Paederia foetida L. Leaf Extract and Assessment of Their Antimicrobial Activities. *International Journal of Green Nanotechnology*, **2012**, 4, 230-239		28
86	Zero thermal input membrane distillation, a zero-waste and sustainable solution for freshwater shortage. *Applied Energy*, **2017**, 187, 910-928	10.7	27
85	Investigating the usefulness of chitosan based proton exchange membranes tailored with exfoliated molybdenum disulfide nanosheets for clean energy applications. *Carbohydrate Polymers*, **2019**, 208, 504-512	10.3	27
84	A poly(vinylidene fluoride-co-hexafluoro propylene) nanohybrid membrane using swift heavy ion irradiation for fuel cell applications. *Journal of Materials Chemistry A*, **2015**, 3, 10413-10424	13	26
83	Green one step morphosynthesis of silver nanoparticles and their antibacterial and anticancerous activities. *New Journal of Chemistry*, **2016**, 40, 2749-2762	3.6	26
82	Criteria for the selection of a support material to fabricate coated membranes for a life support device. *RSC Advances*, **2014**, 4, 38711-38717	3.7	26
81	Effect of PEG-salt mixture on the gelation temperature and morphology of MC gel for sustained delivery of drug. *Carbohydrate Polymers*, **2013**, 91, 529-36	10.3	26
80	An ex situ approach to fabricating nanosilica reinforced polyacrylamide grafted guar gum nanocomposites as an efficient biomaterial for transdermal drug delivery application. *New Journal of Chemistry*, **2017**, 41, 9461-9471	3.6	26
79	A facile comparative approach towards utilization of waste cotton lint for the synthesis of nano-crystalline cellulose crystals along with acid recovery. *International Journal of Biological Macromolecules*, **2018**, 109, 1246-1252	7.9	26
78	Development of an auto-phase separable and reusable graphene oxide-potato starch based cross-linked bio-composite adsorbent for removal of methylene blue dye. *International Journal of Biological Macromolecules*, **2018**, 116, 1037-1048	7.9	26
77	Graphene as a chain extender of polyurethanes for biomedical applications. *RSC Advances*, **2016**, 6, 58628-58640	3.7	25
76	Assessment of morphology and property of graphene oxide-hydroxypropylmethylcellulose nanocomposite films. *International Journal of Biological Macromolecules*, **2014**, 66, 338-45	7.9	25
75	Dielectric relaxation in polyvinyl alcohol–polypyrrole–multiwall carbon nanotube composites below room temperature. *Advances in Natural Sciences: Nanoscience and Nanotechnology*, **2013**, 4, 025005	1.6	25

74	Custom-made PEI/exfoliated-MoS nanocomposite ultrafiltration membranes for separation of bovine serum albumin and humic acid. *Materials Science and Engineering C*, **2018**, 83, 108-114	8.3	25
73	Sulfonated poly (ether sulfone)/poly (vinyl alcohol) blend membranes customized with tungsten disulfide nanosheets for DMFC applications. *Polymer*, **2018**, 155, 42-49	3.9	25
72	Dextrin-mediated synthesis of Ag NPs for colorimetric assays of Cu(2+) ion and Au NPs for catalytic activity. *International Journal of Biological Macromolecules*, **2015**, 80, 309-16	7.9	24
71	Fabrication of anti-fouling PVDF nanocomposite membranes using manganese dioxide nanospheres with tailored morphology, hydrophilicity and permeation. *New Journal of Chemistry*, **2018**, 42, 15803-15810	3.6	24
70	Development of solid super desiccants based on a polymeric superabsorbent hydrogel composite. *RSC Advances*, **2015**, 5, 59583-59590	3.7	24
69	Modeling of pore wetting in vacuum membrane distillation. *Journal of Membrane Science*, **2019**, 572, 332-342	9.6	23
68	Novel shape memory behaviour in IPDI based polyurethanes: Influence of nanoparticle. *Polymer*, **2017**, 110, 95-104	3.9	22
67	Synergic effects of hydrophilic and hydrophobic nanoparticles on performance of nanocomposite distillation membranes: An experimental and numerical study. *Separation and Purification Technology*, **2018**, 202, 45-58	8.3	22
66	Microstructure of polyacrylonitrile-based activated carbon fibers prepared from solvent-free coagulation process. *Journal of Applied Research and Technology*, **2016**, 14, 54-61	1.7	22
65	Development of plasma and/or chemically induced graft co-polymerized electrospun poly(vinylidene fluoride) membranes for solute separation. *Separation and Purification Technology*, **2013**, 108, 196-204	8.3	22
64	Synthesis of RGO/NiO nanocomposites adopting a green approach and its photocatalytic and antibacterial properties. *Materials Chemistry and Physics*, **2020**, 247, 122906	4.4	21
63	Nanoclay and swift heavy ions induced piezoelectric and conducting nanochannel based polymeric membrane for fuel cell. *Journal of Power Sources*, **2016**, 301, 338-347	8.9	20
62	Effect of nanoparticle on the mechanical and gas barrier properties of thermoplastic polyurethane. *Applied Clay Science*, **2017**, 146, 468-474	5.2	20
61	Triple-Layered Nanofibrous Metal□Organic Framework-Based Membranes for Desalination by Direct Contact Membrane Distillation. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 6601-6610	8.3	20
60	Cellulose acetate ultrafiltration membranes customized with bio-inspired polydopamine coating and in situ immobilization of silver nanoparticles. *New Journal of Chemistry*, **2019**, 43, 4216-4225	3.6	19
59	Cross-linked methyl cellulose/graphene oxide rate controlling membranes for in vitro and ex vivo permeation studies of diltiazem hydrochloride. *RSC Advances*, **2016**, 6, 36136-36145	3.7	19
58	Customized antifouling polyacrylonitrile ultrafiltration membranes for effective removal of organic contaminants from aqueous stream. *Journal of Chemical Technology and Biotechnology*, **2019**, 94, 859-868	3.5	19
57	Fabrication of novel aromatic amine functionalized nanofiltration (NF) membranes and testing its dye removal and desalting ability. *Polymer Testing*, **2018**, 72, 1-10	4.5	19

56	The performance of polyvinylidene fluoride - polytetrafluoroethylene nanocomposite distillation membranes: An experimental and numerical study. *Separation and Purification Technology*, **2019**, 226, 192-208	8.3	18
55	Mechanical and wear behaviour of poly(vinylidene fluoride)/clay nanocomposite. *Journal of Materials Research and Technology*, **2019**, 8, 5874-5881	5.5	18
54	Highly permeable, antifouling and antibacterial poly(ether imide) membranes tailored with poly(hexamethylenebiguanide) coated copper oxide nanoparticles. *Materials Chemistry and Physics*, **2020**, 240, 122224	4.4	18
53	Polythiophenes: An emerging class of promising water purifying materials. *European Polymer Journal*, **2019**, 116, 370-385	5.2	17
52	Effect of carrageenan and potassium chloride on an in situ gelling ophthalmic drug delivery system based on methylcellulose. *RSC Advances*, **2015**, 5, 60386-60391	3.7	17
51	Development of active packaging material based on cellulose acetate butyrate/polyethylene glycol/aryl ammonium cation modified clay. *Carbohydrate Polymers*, **2018**, 187, 8-18	10.3	17
50	Versatility of hydrophilic and antifouling PVDF ultrafiltration membranes tailored with polyhexanide coated copper oxide nanoparticles. *Polymer Testing*, **2020**, 84, 106367	4.5	17
49	The rubber–filler interaction and reinforcement in styrene butadiene rubber/devulcanize natural rubber composites with silica–graphene oxide. *Polymer Composites*, **2019**, 40, E1559-E1572	3	17
48	Optimization of nanocomposite membrane for vacuum membrane distillation (VMD) using static and continuous flow cells: Effect of nanoparticles and film thickness. *Separation and Purification Technology*, **2020**, 241, 116685	8.3	16
47	Novel surface modifying macromolecules (SMMs) blended polysulfone gas separation membranes by phase inversion technique. *Journal of Applied Polymer Science*, **2012**, 124, 2287-2299	2.9	16
46	Electrical transport properties of the composite of multiwall carbon nanotube–polypyrrole–polyvinyl alcohol below room temperature. *Polymer Composites*, **2012**, 33, 343-352	3	16
45	In situ fabrication of polyaniline-silver nanocomposites using soft template of sodium alginate. *Journal of Applied Polymer Science*, **2013**, 129, 3551-3557	2.9	16
44	Cellulose acetate nanocomposite ultrafiltration membranes tailored with hydrous manganese dioxide nanoparticles for water treatment applications. *Polymers for Advanced Technologies*, **2019**, 30, 1943-1950	3.2	15
43	In situ fluorescence of lac dye stabilized gold nanoparticles; DNA binding assay and toxicity study. *New Journal of Chemistry*, **2016**, 40, 7121-7131	3.6	15
42	Selective sensing of dopamine by sodium cholate tailored polypyrrole-silver nanocomposite. *Synthetic Metals*, **2020**, 260, 116296	3.6	15
41	Biosurfactant tailored synthesis of porous polypyrrole nanostructures: A facile approach towards CO2 adsorption and dopamine sensing. *Synthetic Metals*, **2018**, 245, 209-222	3.6	15
40	Functionalized MWCNTs in improving the performance and biocompatibility of potential hemodialysis membranes. *RSC Advances*, **2016**, 6, 63156-63170	3.7	14
39	Physical and electrical characterization of reduced graphene oxide synthesized adopting green route. *Bulletin of Materials Science*, **2016**, 39, 543-550	1.7	14

38	Chemical precipitation enabled UF and MF filtration for lead removal. *Journal of Water Process Engineering*, **2021**, 41, 101987	6.7	13
37	Pore wetting in membrane distillation: A comprehensive review. *Progress in Materials Science*, **2021**, 122, 100843	42.2	13
36	Green approaches to synthesize reduced graphene oxide and assessment of its electrical properties. *Nano Structures Nano Objects*, **2019**, 19, 100362	5.6	12
35	Performances of poly(vinylidene fluoride-co-hexafluoropropylene) ultrafiltration membranes modified with poly(vinyl pyrrolidone). *Polymer Engineering and Science*, **2015**, 55, 2482-2492	2.3	12
34	CFD-based genetic programming model for liquid entry pressure estimation of hydrophobic membranes. *Desalination*, **2020**, 476, 114231	10.3	12
33	Carbon Nanomaterials in Renewable Energy Production and Storage Applications. *Environmental Chemistry for A Sustainable World*, **2019**, 51-104	0.8	11
32	Poloxamer and gelatin gel guided polyaniline nanofibers: synthesis and characterization. *Polymer International*, **2014**, 63, 1505-1512	3.3	11
31	Synthesis of sodium cholate mediated rod-like polypyrrole-silver nanocomposite for selective sensing of acetone vapor. *Nano Structures Nano Objects*, **2020**, 21, 100419	5.6	10
30	Structural, mechanical, and gas barrier properties of poly(ethylene terephthalate) nanohybrid using nanotalc. *Journal of Applied Polymer Science*, **2020**, 137, 48607	2.9	10
29	Sulfonated poly(phenylene ether ether sulfone) membrane tailored with layer-by-layer self-assembly of poly(diallyldimethylammonium chloride) and phosphotungstic acid for DMFC applications. *Journal of Applied Polymer Science*, **2019**, 136, 47344	2.9	10
28	Sulfonated poly (ether sulfone) composite membranes customized with polydopamine coated molybdenum disulfide nanosheets for renewable energy devices. *Polymer*, **2019**, 175, 255-264	3.9	9
27	Potency of nanolay on structural, mechanical and gas barrier properties of poly(ethylene terephthalate) Nanohybrid. *Journal of Polymer Research*, **2020**, 27, 1	2.7	9
26	The gamut of perspectives, challenges, and recent trends for in situ hydrogels: a smart ophthalmic drug delivery vehicle. *Biomaterials Science*, **2020**, 8, 4665-4691	7.4	9
25	Cellulose acetate ultrafiltration membranes customized with copper oxide nanoparticles for efficient separation with antifouling behavior. *Journal of Applied Polymer Science*, **2021**, 138, 49867	2.9	9
24	Design of an efficient and selective adsorbent of cationic dye through activated carbon - graphene oxide nanocomposite: Study on mechanism and synergy. *Materials Chemistry and Physics*, **2021**, 260, 124090	4.4	9
23	Na-cholate micelle mediated synthesis of polypyrrole nanoribbons for ethanol sensing. *Journal of Environmental Chemical Engineering*, **2020**, 8, 104249	6.8	7
22	Improvement in mechanical and structural properties of poly(ethylene terephthalate) nanohybrid. *SN Applied Sciences*, **2019**, 1, 1	1.8	7
21	Investigating the efficacy of PVDF membranes customized with sulfonated graphene oxide nanosheets for enhanced permeability and antifouling. *Journal of Environmental Chemical Engineering*, **2020**, 8, 104426	6.8	7

20	Development of Membrane-Based Desiccant Fiber for Vacuum Desiccant Cooling. *ACS Applied Materials & Interfaces*, **2016**, 8, 15778-87	9.5	6
19	Influence of novel surface modifying macromolecules and coagulation media on the gas permeation properties of different polymeric gas separation membranes. *Journal of Applied Polymer Science*, **2012**, 124, 2300-2310	2.9	6
18	Investigation of the versatility of SPES membranes customized with sulfonated molybdenum disulfide nanosheets for DMFC applications. *International Journal of Hydrogen Energy*, **2020**, 45, 15507-15520	6.7	5
17	Custom-made sulfonated poly (vinylidene fluoride-co-hexafluoropropylene) nanocomposite membranes for vanadium redox flow battery applications. *Polymer Testing*, **2020**, 90, 106685	4.5	5
16	Effects of Polymer Ratio and Film-Penetration Time on the Properties and Performance of Nanocomposite PVDF Membranes in Membrane Distillation. *Industrial & Engineering Chemistry Research*, **2016**, 55, 9971-9982	3.9	5
15	Nonlinear Viscoelasticity of One Dimensional Filler Reinforced Elastomer Composites. *Advances in Polymer Science*, **2014**, 15-41	1.3	5
14	Membrane Distillation **2016**, 419-455		5
13	PFOM fillers embedded PVDF/cellulose dual-layered membranes with hydrophobic-hydrophilic channels for desalination direct contact membrane distillation process.. *RSC Advances*, **2019**, 9, 41462-41474	3.7	5
12	Transport characteristics of liquid-gas interface in a capillary membrane pore. *Journal of Membrane Science*, **2020**, 611, 118387	9.6	4
11	Membrane Transport Models **2010**, 1041-1047		4
10	Chemically reduced graphene oxide (CRGO) from waste batteries and morphological assessment of CRGO/methyl cellulose transdermal film. *Nano Structures Nano Objects*, **2020**, 22, 100454	5.6	4
9	Sulfonated poly (vinylidene fluoride-co-hexafluoropropylene) nanocomposite membranes with high selectivity, stability, and vanadium-ion barrier for vanadium redox flow batteries. *Polymers for Advanced Technologies*, **2020**, 31, 3341-3350	3.2	3
8	Highly selective custom-made chitosan based membranes with reduced fuel permeability for direct methanol fuel cells. *Journal of Applied Polymer Science*, **2021**, 138, 51366	2.9	3
7	Performance of a newly developed hydrophilic additive blended with different ultrafiltration base polymers. *Journal of Applied Polymer Science*, **2010**, 116, NA-NA	2.9	2
6	Effect of tamarind seed polysaccharide on thermogelation property and drug release profile of poloxamer 407-based ophthalmic formulation. *New Journal of Chemistry*, **2020**, 44, 15708-15715	3.6	2
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4	Electrochemical sensing of serotonin by silver decorated polypyrrole nanoribbon based electrode synthesized by sodium cholate as soft template. *Materials Today Communications*, **2022**, 31, 103361	2.5	1
3	Examination of the bubble gas transport method to estimate the membrane pore size distribution. *Desalination*, **2022**, 531, 115714	10.3	0

2 Crystal-Melt Phase Change of Food and Biopolymers **2017**, 119-139

1 Thermal Properties of Food and Biopolymer Using Relaxation Techniques **2017**, 141-157