

# Dipak Rana

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Examination of the bubble gas transport method to estimate the membrane pore size distribution. <i>Desalination</i> , <b>2022</b> , 531, 115714	10.3	0
162	Electrochemical sensing of serotonin by silver decorated polypyrrole nanoribbon based electrode synthesized by sodium cholate as soft template. <i>Materials Today Communications</i> , <b>2022</b> , 31, 103361	2.5	1
161	Chemical precipitation enabled UF and MF filtration for lead removal. <i>Journal of Water Process Engineering</i> , <b>2021</b> , 41, 101987	6.7	13
160	Cellulose acetate ultrafiltration membranes customized with copper oxide nanoparticles for efficient separation with antifouling behavior. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 49867	2.9	9
159	Design of an efficient and selective adsorbent of cationic dye through activated carbon - graphene oxide nanocomposite: Study on mechanism and synergy. <i>Materials Chemistry and Physics</i> , <b>2021</b> , 260, 124090	4.4	9
158	Highly selective custom-made chitosan based membranes with reduced fuel permeability for direct methanol fuel cells. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 51366	2.9	3
157	Pore wetting in membrane distillation: A comprehensive review. <i>Progress in Materials Science</i> , <b>2021</b> , 122, 100843	42.2	13
156	A reverse approach to evaluate membrane pore size distribution by the bubble gas transport method using fewer experimental data points. <i>Desalination</i> , <b>2021</b> , 518, 115287	10.3	1
155	Investigation of the versatility of SPES membranes customized with sulfonated molybdenum disulfide nanosheets for DMFC applications. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 15507-15520	6.7	5
154	Custom-made sulfonated poly (vinylidene fluoride-co-hexafluoropropylene) nanocomposite membranes for vanadium redox flow battery applications. <i>Polymer Testing</i> , <b>2020</b> , 90, 106685	4.5	5
153	Transport characteristics of liquid-gas interface in a capillary membrane pore. <i>Journal of Membrane Science</i> , <b>2020</b> , 611, 118387	9.6	4
152	Synthesis of RGO/NiO nanocomposites adopting a green approach and its photocatalytic and antibacterial properties. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 247, 122906	4.4	21
151	Na-cholate micelle mediated synthesis of polypyrrole nanoribbons for ethanol sensing. <i>Journal of Environmental Chemical Engineering</i> , <b>2020</b> , 8, 104249	6.8	7
150	Optimization of nanocomposite membrane for vacuum membrane distillation (VMD) using static and continuous flow cells: Effect of nanoparticles and film thickness. <i>Separation and Purification Technology</i> , <b>2020</b> , 241, 116685	8.3	16
149	Synthesis of sodium cholate mediated rod-like polypyrrole-silver nanocomposite for selective sensing of acetone vapor. <i>Nano Structures Nano Objects</i> , <b>2020</b> , 21, 100419	5.6	10
148	Structural, mechanical, and gas barrier properties of poly(ethylene terephthalate) nanohybrid using nanotalc. <i>Journal of Applied Polymer Science</i> , <b>2020</b> , 137, 48607	2.9	10
147	Potency of nanolay on structural, mechanical and gas barrier properties of poly(ethylene terephthalate) Nanohybrid. <i>Journal of Polymer Research</i> , <b>2020</b> , 27, 1	2.7	9

146	Selective sensing of dopamine by sodium cholate tailored polypyrrole-silver nanocomposite. <i>Synthetic Metals</i> , <b>2020</b> , 260, 116296	3.6	15
145	CFD-based genetic programming model for liquid entry pressure estimation of hydrophobic membranes. <i>Desalination</i> , <b>2020</b> , 476, 114231	10.3	12
144	Investigating the efficacy of PVDF membranes customized with sulfonated graphene oxide nanosheets for enhanced permeability and antifouling. <i>Journal of Environmental Chemical Engineering</i> , <b>2020</b> , 8, 104426	6.8	7
143	Versatility of hydrophilic and antifouling PVDF ultrafiltration membranes tailored with polyhexanide coated copper oxide nanoparticles. <i>Polymer Testing</i> , <b>2020</b> , 84, 106367	4.5	17
142	The gamut of perspectives, challenges, and recent trends for in situ hydrogels: a smart ophthalmic drug delivery vehicle. <i>Biomaterials Science</i> , <b>2020</b> , 8, 4665-4691	7.4	9
141	Sulfonated poly (vinylidene fluoride-co-hexafluoropropylene) nanocomposite membranes with high selectivity, stability, and vanadium-ion barrier for vanadium redox flow batteries. <i>Polymers for Advanced Technologies</i> , <b>2020</b> , 31, 3341-3350	3.2	3
140	Effect of tamarind seed polysaccharide on thermogelation property and drug release profile of poloxamer 407-based ophthalmic formulation. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 15708-15715	3.6	2
139	Highly permeable, antifouling and antibacterial poly(ether imide) membranes tailored with poly(hexamethylenebiguanide) coated copper oxide nanoparticles. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 240, 122224	4.4	18
138	Triple-Layered Nanofibrous Metal-Organic Framework-Based Membranes for Desalination by Direct Contact Membrane Distillation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 6601-6610	8.3	20
137	Chemically reduced graphene oxide (CRGO) from waste batteries and morphological assessment of CRGO/methyl cellulose transdermal film. <i>Nano Structures Nano Objects</i> , <b>2020</b> , 22, 100454	5.6	4
136	Sulfonated poly (ether sulfone) composite membranes customized with polydopamine coated molybdenum disulfide nanosheets for renewable energy devices. <i>Polymer</i> , <b>2019</b> , 175, 255-264	3.9	9
135	The performance of polyvinylidene fluoride - polytetrafluoroethylene nanocomposite distillation membranes: An experimental and numerical study. <i>Separation and Purification Technology</i> , <b>2019</b> , 226, 192-208	8.3	18
134	Effects of operating parameters and coexisting ions on the efficiency of heavy metal ions removal by nano-fibrous metal-organic framework membrane filtration process. <i>Science of the Total Environment</i> , <b>2019</b> , 674, 355-362	10.2	109
133	Polythiophenes: An emerging class of promising water purifying materials. <i>European Polymer Journal</i> , <b>2019</b> , 116, 370-385	5.2	17
132	Cellulose acetate nanocomposite ultrafiltration membranes tailored with hydrous manganese dioxide nanoparticles for water treatment applications. <i>Polymers for Advanced Technologies</i> , <b>2019</b> , 30, 1943-1950	3.2	15
131	Polydopamine layered poly (ether imide) ultrafiltration membranes tailored with silver nanoparticles designed for better permeability, selectivity and antifouling. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2019</b> , 76, 141-149	6.3	36
130	Tailored polymer nanocomposite membranes based on carbon, metal oxide and silicon nanomaterials: a review. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 8723-8745	13	79
129	Nano CuO/g-CN sheets-based ultrafiltration membrane with enhanced interfacial affinity, antifouling and protein separation performances for water treatment application. <i>Journal of Environmental Sciences</i> , <b>2019</b> , 82, 57-69	6.4	62

128	Green synthesis of cadmium oxide decorated reduced graphene oxide nanocomposites and its electrical and antibacterial properties. <i>Materials Science and Engineering C</i> , <b>2019</b> , 99, 696-709	8.3	34
127	Carbon Nanomaterials in Renewable Energy Production and Storage Applications. <i>Environmental Chemistry for A Sustainable World</i> , <b>2019</b> , 51-104	0.8	11
126	Cellulose acetate ultrafiltration membranes customized with bio-inspired polydopamine coating and in situ immobilization of silver nanoparticles. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 4216-4225	3.6	19
125	Green approaches to synthesize reduced graphene oxide and assessment of its electrical properties. <i>Nano Structures Nano Objects</i> , <b>2019</b> , 19, 100362	5.6	12
124	Improvement in mechanical and structural properties of poly(ethylene terephthalate) nanohybrid. <i>SN Applied Sciences</i> , <b>2019</b> , 1, 1	1.8	7
123	Effects of multi-walled carbon nanotubes (MWCNTs) and integrated MWCNTs/SiO <sub>2</sub> nano-additives on PVDF polymeric membranes for vacuum membrane distillation. <i>Separation and Purification Technology</i> , <b>2019</b> , 217, 154-163	8.3	37
122	Mechanical and wear behaviour of poly(vinylidene fluoride)/clay nanocomposite. <i>Journal of Materials Research and Technology</i> , <b>2019</b> , 8, 5874-5881	5.5	18
121	PFOM fillers embedded PVDF/cellulose dual-layered membranes with hydrophobic-hydrophilic channels for desalination direct contact membrane distillation process.. <i>RSC Advances</i> , <b>2019</b> , 9, 41462-41474	3.7	5
120	Sulfonated poly(phenylene ether ether sulfone) membrane tailored with layer-by-layer self-assembly of poly(diallyldimethylammonium chloride) and phosphotungstic acid for DMFC applications. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47344	2.9	10
119	Modeling of pore wetting in vacuum membrane distillation. <i>Journal of Membrane Science</i> , <b>2019</b> , 572, 332-342	9.6	23
118	Using renewable n-octanol in a non-road diesel engine with some modifications. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2019</b> , 41, 1194-1208	1.6	44
117	Investigating the usefulness of chitosan based proton exchange membranes tailored with exfoliated molybdenum disulfide nanosheets for clean energy applications. <i>Carbohydrate Polymers</i> , <b>2019</b> , 208, 504-512	10.3	27
116	The rubber filler interaction and reinforcement in styrene butadiene rubber/devulcanize natural rubber composites with silica/graphene oxide. <i>Polymer Composites</i> , <b>2019</b> , 40, E1559-E1572	3	17
115	Customized antifouling polyacrylonitrile ultrafiltration membranes for effective removal of organic contaminants from aqueous stream. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2019</b> , 94, 859-868	2.5	19
114	Studies on green synthesized silver nanoparticles using <i>Abelmoschus esculentus</i> (L.) pulp extract having anticancer (in vitro) and antimicrobial applications. <i>Arabian Journal of Chemistry</i> , <b>2019</b> , 12, 2572-2584	5.9	58
113	Prediction of emissions and performance of a diesel engine fueled with n-octanol/diesel blends using response surface methodology. <i>Journal of Cleaner Production</i> , <b>2018</b> , 184, 423-439	10.3	73
112	Metal-Organic Frameworks Supported on Nanofiber for Desalination by Direct Contact Membrane Distillation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 11251-11260	9.5	64
111	Metal-organic frameworks supported on nanofibers to remove heavy metals. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 4550-4555	13	183

110	Development of active packaging material based on cellulose acetate butyrate/polyethylene glycol/aryl ammonium cation modified clay. <i>Carbohydrate Polymers</i> , <b>2018</b> , 187, 8-18	10.3	17
109	Synthesis of methylcellulose/cellulose nano-crystals nanocomposites: Material properties and study of sustained release of ketorolac tromethamine. <i>Carbohydrate Polymers</i> , <b>2018</b> , 188, 168-180	10.3	29
108	Tailored SPVdF-co-HFP/SGO nanocomposite proton exchange membranes for direct methanol fuel cells. <i>Polymer</i> , <b>2018</b> , 140, 22-32	3.9	44
107	Bio-derived cellulose nanofibril reinforced poly(N-isopropylacrylamide)-g-guar gum nanocomposite: An avant-garde biomaterial as a transdermal membrane. <i>Polymer</i> , <b>2018</b> , 135, 85-102	3.9	32
106	Jute cellulose nano-fibrils/hydroxypropylmethylcellulose nanocomposite: A novel material with potential for application in packaging and transdermal drug delivery system. <i>Industrial Crops and Products</i> , <b>2018</b> , 112, 633-643	5.9	58
105	Tailoring the Efficacy of Multifunctional Biopolymeric Graphene Oxide Quantum Dot-Based Nanomaterial as Nanocargo in Cancer Therapeutic Application. <i>ACS Biomaterials Science and Engineering</i> , <b>2018</b> , 4, 514-531	5.5	32
104	Engineered Cellular Uptake and Controlled Drug Delivery Using Two Dimensional Nanoparticle and Polymer for Cancer Treatment. <i>Molecular Pharmaceutics</i> , <b>2018</b> , 15, 679-694	5.6	36
103	Biodegradable toughened nanohybrid shape memory polymer for smart biomedical applications. <i>Nanoscale</i> , <b>2018</b> , 10, 9917-9934	7.7	57
102	Synergic effects of hydrophilic and hydrophobic nanoparticles on performance of nanocomposite distillation membranes: An experimental and numerical study. <i>Separation and Purification Technology</i> , <b>2018</b> , 202, 45-58	8.3	22
101	Experiment and modeling for flux and permeate concentration of heavy metal ion in adsorptive membrane filtration using a metal-organic framework incorporated nanofibrous membrane. <i>Chemical Engineering Journal</i> , <b>2018</b> , 352, 737-744	14.7	97
100	Polymer Electrolyte Membranes for Microbial Fuel Cells: A Review. <i>Polymer Reviews</i> , <b>2018</b> , 58, 610-629	14	28
99	Fabrication of anti-fouling PVDF nanocomposite membranes using manganese dioxide nanospheres with tailored morphology, hydrophilicity and permeation. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 15803-15810	3.6	24
98	A facile comparative approach towards utilization of waste cotton lint for the synthesis of nano-crystalline cellulose crystals along with acid recovery. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 109, 1246-1252	7.9	26
97	Custom-made PEI/exfoliated-MoS nanocomposite ultrafiltration membranes for separation of bovine serum albumin and humic acid. <i>Materials Science and Engineering C</i> , <b>2018</b> , 83, 108-114	8.3	25
96	Fabrication of novel aromatic amine functionalized nanofiltration (NF) membranes and testing its dye removal and desalting ability. <i>Polymer Testing</i> , <b>2018</b> , 72, 1-10	4.5	19
95	Biosurfactant tailored synthesis of porous polypyrrole nanostructures: A facile approach towards CO <sub>2</sub> adsorption and dopamine sensing. <i>Synthetic Metals</i> , <b>2018</b> , 245, 209-222	3.6	15
94	Sulfonated poly (ether sulfone)/poly (vinyl alcohol) blend membranes customized with tungsten disulfide nanosheets for DMFC applications. <i>Polymer</i> , <b>2018</b> , 155, 42-49	3.9	25
93	Custom-made sulfonated poly (ether sulfone) nanocomposite proton exchange membranes using exfoliated molybdenum disulfide nanosheets for DMFC applications. <i>Polymer</i> , <b>2018</b> , 147, 48-55	3.9	34

92	Development of an auto-phase separable and reusable graphene oxide-potato starch based cross-linked bio-composite adsorbent for removal of methylene blue dye. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 116, 1037-1048	7.9	26
91	Insight Studies on Metal-Organic Framework Nanofibrous Membrane Adsorption and Activation for Heavy Metal Ions Removal from Aqueous Solution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 18619-18629	9.5	193
90	Studies of the kinetics and mechanism of the removal process of proflavine dye through adsorption by graphene oxide. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 230, 696-704	6	37
89	Crystal-Melt Phase Change of Food and Biopolymers <b>2017</b> , 119-139		
88	Thermal Properties of Food and Biopolymer Using Relaxation Techniques <b>2017</b> , 141-157		
87	Effect of gellan gum on the thermogelation property and drug release profile of Poloxamer 407 based ophthalmic formulation. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 102, 258-265	7.9	42
86	Novel shape memory behaviour in IPDI based polyurethanes: Influence of nanoparticle. <i>Polymer</i> , <b>2017</b> , 110, 95-104	3.9	22
85	Tailored PVDF nanocomposite membranes using exfoliated MoS <sub>2</sub> nanosheets for improved permeation and antifouling performance. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 14315-14324	3.6	35
84	An ex situ approach to fabricating nanosilica reinforced polyacrylamide grafted guar gum nanocomposites as an efficient biomaterial for transdermal drug delivery application. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 9461-9471	3.6	26
83	Cellulose nanofibrils/chitosan based transdermal drug delivery vehicle for controlled release of ketorolac tromethamine. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 15312-15319	3.6	43
82	Effect of nanoparticle on the mechanical and gas barrier properties of thermoplastic polyurethane. <i>Applied Clay Science</i> , <b>2017</b> , 146, 468-474	5.2	20
81	Studies on carboxylated graphene oxide incorporated polyetherimide mixed matrix ultrafiltration membranes. <i>Materials Chemistry and Physics</i> , <b>2017</b> , 186, 146-158	4.4	33
80	Zero thermal input membrane distillation, a zero-waste and sustainable solution for freshwater shortage. <i>Applied Energy</i> , <b>2017</b> , 187, 910-928	10.7	27
79	Effects of Polymer Ratio and Film-Penetration Time on the Properties and Performance of Nanocomposite PVDF Membranes in Membrane Distillation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 9971-9982	3.9	5
78	Superior biomaterials using diamine modified graphene grafted polyurethane. <i>Polymer</i> , <b>2016</b> , 106, 109-119	3.7	29
77	In situ fluorescence of lac dye stabilized gold nanoparticles; DNA binding assay and toxicity study. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 7121-7131	3.6	15
76	Graphene as a chain extender of polyurethanes for biomedical applications. <i>RSC Advances</i> , <b>2016</b> , 6, 58628-58640	3.7	45
75	Development of Membrane-Based Desiccant Fiber for Vacuum Desiccant Cooling. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 15778-87	9.5	6



74	Synthesis and characterization of graphene from waste dry cell battery for electronic applications. <i>RSC Advances</i> , <b>2016</b> , 6, 10557-10564	3.7	44
73	Green one step morphosynthesis of silver nanoparticles and their antibacterial and anticancerous activities. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 2749-2762	3.6	26
72	Layered double hydroxides as effective carrier for anticancer drugs and tailoring of release rate through interlayer anions. <i>Journal of Controlled Release</i> , <b>2016</b> , 224, 186-198	11.7	90
71	Effects of hydrophilic silica nanoparticles and backing material in improving the structure and performance of VMD PVDF membranes. <i>Separation and Purification Technology</i> , <b>2016</b> , 157, 60-71	8.3	43
70	Studies on synthesis of reduced graphene oxide (RGO) via green route and its electrical property. <i>Materials Research Bulletin</i> , <b>2016</b> , 79, 41-51	5.1	69
69	Microstructure of polyacrylonitrile-based activated carbon fibers prepared from solvent-free coagulation process. <i>Journal of Applied Research and Technology</i> , <b>2016</b> , 14, 54-61	1.7	22
68	Nanoclay and swift heavy ions induced piezoelectric and conducting nanochannel based polymeric membrane for fuel cell. <i>Journal of Power Sources</i> , <b>2016</b> , 301, 338-347	8.9	20
67	Enhanced performance of PVDF nanocomposite membrane by nanofiber coating: A membrane for sustainable desalination through MD. <i>Water Research</i> , <b>2016</b> , 89, 39-49	12.5	75
66	Effects of Inorganic Nano-Additives on Properties and Performance of Polymeric Membranes in Water Treatment. <i>Separation and Purification Reviews</i> , <b>2016</b> , 45, 141-167	7.3	65
65	Studies on methylcellulose/pectin/montmorillonite nanocomposite films and their application possibilities. <i>Carbohydrate Polymers</i> , <b>2016</b> , 136, 1218-27	10.3	68
64	Reversible Bidirectional Shape Memory Effect in Polyurethanes through Molecular Flipping. <i>Macromolecules</i> , <b>2016</b> , 49, 4889-4897	5.5	57
63	Functionalized MWCNTs in improving the performance and biocompatibility of potential hemodialysis membranes. <i>RSC Advances</i> , <b>2016</b> , 6, 63156-63170	3.7	14
62	Membrane Distillation <b>2016</b> , 419-455		5
61	The heat and mass transfer of vacuum membrane distillation: Effect of active layer morphology with and without support material. <i>Separation and Purification Technology</i> , <b>2016</b> , 164, 56-62	8.3	30
60	Separation of oil/water emulsions using nano MgO anchored hybrid ultrafiltration membranes for environmental abatement. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133, n/a-n/a	2.9	29
59	Cross-linked methyl cellulose/graphene oxide rate controlling membranes for in vitro and ex vivo permeation studies of diltiazem hydrochloride. <i>RSC Advances</i> , <b>2016</b> , 6, 36136-36145	3.7	19
58	Physical and electrical characterization of reduced graphene oxide synthesized adopting green route. <i>Bulletin of Materials Science</i> , <b>2016</b> , 39, 543-550	1.7	14
57	Nanocomposite films based on cellulose acetate/polyethylene glycol/modified montmorillonite as nontoxic active packaging material. <i>RSC Advances</i> , <b>2016</b> , 6, 92569-92578	3.7	29

56	Physical and electrochemical characterization of reduced graphene oxide/silver nanocomposites synthesized by adopting a green approach. <i>RSC Advances</i> , <b>2015</b> , 5, 25357-25364	3.7	46
55	Functionalized poly(vinylidene fluoride) nanohybrid for superior fuel cell membrane. <i>Journal of Membrane Science</i> , <b>2015</b> , 481, 124-136	9.6	36
54	Graphene Oxide Nanocomposite Incorporated Poly(ether imide) Mixed Matrix Membranes for in Vitro Evaluation of Its Efficacy in Blood Purification Applications. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 7899-7913	3.9	35
53	Dextrin-mediated synthesis of Ag NPs for colorimetric assays of Cu(2+) ion and Au NPs for catalytic activity. <i>International Journal of Biological Macromolecules</i> , <b>2015</b> , 80, 309-16	7.9	24
52	Effects of superhydrophobic SiO <sub>2</sub> nanoparticles on the performance of PVDF flat sheet membranes for vacuum membrane distillation. <i>Desalination</i> , <b>2015</b> , 373, 47-57	10.3	123
51	Influence of graphene on self-assembly of polyurethane and evaluation of its biomedical properties. <i>Polymer</i> , <b>2015</b> , 65, 183-192	3.9	31
50	Investigation on sodium benzoate release from poly(butylene adipate-co-terephthalate)/organoclay/sodium benzoate based nanocomposite film and their antimicrobial activity. <i>Journal of Food Science</i> , <b>2015</b> , 80, E602-9	3.4	28
49	A poly(vinylidene fluoride-co-hexafluoro propylene) nanohybrid membrane using swift heavy ion irradiation for fuel cell applications. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 10413-10424	13	26
48	Effect of carrageenan and potassium chloride on an in situ gelling ophthalmic drug delivery system based on methylcellulose. <i>RSC Advances</i> , <b>2015</b> , 5, 60386-60391	3.7	17
47	Effect of methyl cellulose on gelation behavior and drug release from poloxamer based ophthalmic formulations. <i>International Journal of Biological Macromolecules</i> , <b>2015</b> , 72, 706-10	7.9	33
46	Performances of poly(vinylidene fluoride-co-hexafluoropropylene) ultrafiltration membranes modified with poly(vinyl pyrrolidone). <i>Polymer Engineering and Science</i> , <b>2015</b> , 55, 2482-2492	2.3	12
45	Study on structure and vacuum membrane distillation performance of PVDF membranes: II. Influence of molecular weight. <i>Chemical Engineering Journal</i> , <b>2015</b> , 276, 174-184	14.7	48
44	Effects of hydrophilic CuO nanoparticles on properties and performance of PVDF VMD membranes. <i>Desalination</i> , <b>2015</b> , 369, 75-84	10.3	66
43	Development of solid super desiccants based on a polymeric superabsorbent hydrogel composite. <i>RSC Advances</i> , <b>2015</b> , 5, 59583-59590	3.7	24
42	Enhancements of Catalyst Distribution and Functioning Upon Utilization of Conducting Polymers as Supporting Matrices in DMFCs: A Review. <i>Polymer Reviews</i> , <b>2015</b> , 55, 1-56	14	66
41	Antibacterial activity of Ag-Au alloy NPs and chemical sensor property of Au NPs synthesized by dextran. <i>Carbohydrate Polymers</i> , <b>2014</b> , 107, 151-7	10.3	45
40	In situ synthesis of a reduced graphene oxide/cuprous oxide nanocomposite: a reusable catalyst. <i>RSC Advances</i> , <b>2014</b> , 4, 52044-52052	3.7	49
39	Anticancer (in vitro) and antimicrobial effect of gold nanoparticles synthesized using <i>Abelmoschus esculentus</i> (L.) pulp extract via a green route. <i>RSC Advances</i> , <b>2014</b> , 4, 37838	3.7	88



38	Development of novel charged surface modifying macromolecule blended PES membranes to remove EDCs and PPCPs from drinking water sources. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 10059-10072	13	69
37	Criteria for the selection of a support material to fabricate coated membranes for a life support device. <i>RSC Advances</i> , <b>2014</b> , 4, 38711-38717	3.7	26
36	Poloxamer and gelatin gel guided polyaniline nanofibers: synthesis and characterization. <i>Polymer International</i> , <b>2014</b> , 63, 1505-1512	3.3	11
35	Green synthesis of silver nanoparticles-based nanofluids and investigation of their antimicrobial activities. <i>Microfluidics and Nanofluidics</i> , <b>2014</b> , 16, 541-551	2.8	28
34	Review: the characterization of electrospun nanofibrous liquid filtration membranes. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 6143-6159	4.3	73
33	Preparation of ZnIn <sub>2</sub> S <sub>4</sub> /K <sub>2</sub> La <sub>2</sub> Ti <sub>3</sub> O <sub>10</sub> composites and their photocatalytic H <sub>2</sub> evolution from aqueous Na <sub>2</sub> S/Na <sub>2</sub> SO <sub>3</sub> under visible light irradiation. <i>Catalysis Communications</i> , <b>2014</b> , 48, 55-59	3.2	54
32	Taro corms mucilage/HPMC based transdermal patch: an efficient device for delivery of diltiazem hydrochloride. <i>International Journal of Biological Macromolecules</i> , <b>2014</b> , 66, 158-65	7.9	45
31	Antimicrobial activity and biodegradation behavior of poly(butylene adipate-co-terephthalate)/clay nanocomposites. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	44
30	Study on the structure and vacuum membrane distillation performance of PVDF composite membranes: I. Influence of blending. <i>Separation and Purification Technology</i> , <b>2014</b> , 133, 303-312	8.3	47
29	Nonlinear Viscoelasticity of One Dimensional Filler Reinforced Elastomer Composites. <i>Advances in Polymer Science</i> , <b>2014</b> , 15-41	1.3	5
28	Assessment of morphology and property of graphene oxide-hydroxypropylmethylcellulose nanocomposite films. <i>International Journal of Biological Macromolecules</i> , <b>2014</b> , 66, 338-45	7.9	25
27	Pharmaceutical and personal care products removal from drinking water by modified cellulose acetate membrane: Field testing. <i>Chemical Engineering Journal</i> , <b>2013</b> , 225, 848-856	14.7	40
26	Effect of clay concentration on morphology and properties of hydroxypropylmethylcellulose films. <i>Carbohydrate Polymers</i> , <b>2013</b> , 96, 57-63	10.3	39
25	Effect of poly(vinyl pyrrolidone) on the morphology and physical properties of poly(vinyl alcohol)/sodium montmorillonite nanocomposite films. <i>Progress in Natural Science: Materials International</i> , <b>2013</b> , 23, 579-587	3.6	95
24	Development of plasma and/or chemically induced graft co-polymerized electrospun poly(vinylidene fluoride) membranes for solute separation. <i>Separation and Purification Technology</i> , <b>2013</b> , 108, 196-204	8.3	22
23	Effect of PEG-salt mixture on the gelation temperature and morphology of MC gel for sustained delivery of drug. <i>Carbohydrate Polymers</i> , <b>2013</b> , 91, 529-36	10.3	26
22	Effect of xanthan gum and guar gum on in situ gelling ophthalmic drug delivery system based on poloxamer-407. <i>International Journal of Biological Macromolecules</i> , <b>2013</b> , 62, 117-23	7.9	72
21	In situ fabrication of polyaniline-silver nanocomposites using soft template of sodium alginate. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 129, 3551-3557	2.9	16

20	Enhanced visible-light-responsive photocatalytic property of PbS-sensitized K4Nb6O17 nanocomposite photocatalysts. <i>Applied Surface Science</i> , <b>2013</b> , 276, 823-831	6.7	48
19	Dielectric relaxation in polyvinyl alcohol/polypyrrole/multiwall carbon nanotube composites below room temperature. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , <b>2013</b> , 4, 025005	1.6	25
18	Preparation and characterization of surface modified electrospun membranes for higher filtration flux. <i>Journal of Membrane Science</i> , <b>2012</b> , 390-391, 235-242	9.6	67
17	Influence of electrospun fiber size on the separation efficiency of thin film nanofiltration composite membrane. <i>Journal of Membrane Science</i> , <b>2012</b> , 392-393, 101-111	9.6	134
16	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. <i>Journal of Membrane Science</i> , <b>2012</b> , 409-410, 346-354	9.6	74
15	Synthesis of PbS/K2La2Ti3O10 composite and its photocatalytic activity for hydrogen production. <i>Progress in Natural Science: Materials International</i> , <b>2012</b> , 22, 120-125	3.6	39
14	Novel surface modifying macromolecules (SMMs) blended polysulfone gas separation membranes by phase inversion technique. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 124, 2287-2299	2.9	16
13	Influence of novel surface modifying macromolecules and coagulation media on the gas permeation properties of different polymeric gas separation membranes. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 124, 2300-2310	2.9	6
12	Strategies for effective oral insulin delivery with modified chitosan nanoparticles: A review. <i>Progress in Polymer Science</i> , <b>2012</b> , 37, 1457-1475	29.6	153
11	Towards antibiofouling ultrafiltration membranes by blending silver containing surface modifying macromolecules. <i>Chemical Communications</i> , <b>2012</b> , 48, 693-5	5.8	82
10	Effect of PVA on the gel temperature of MC and release kinetics of KT from MC based ophthalmic formulations. <i>International Journal of Biological Macromolecules</i> , <b>2012</b> , 50, 565-72	7.9	31
9	Synergistic effect of salt mixture on the gelation temperature and morphology of methylcellulose hydrogel. <i>International Journal of Biological Macromolecules</i> , <b>2012</b> , 51, 831-6	7.9	41
8	Electrical transport properties of the composite of multiwall carbon nanotube/polypyrrole/polyvinyl alcohol below room temperature. <i>Polymer Composites</i> , <b>2012</b> , 33, 343-352 <sup>3</sup>		16
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6	Development of antifouling thin-film-composite membranes for seawater desalination. <i>Journal of Membrane Science</i> , <b>2011</b> , 367, 110-118	9.6	107
5	Membrane Transport Models <b>2010</b> , 1041-1047		4
4	Performance of a newly developed hydrophilic additive blended with different ultrafiltration base polymers. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 116, NA-NA	2.9	2
3	Relationship between surface structure and separation performance of poly(ether sulfone) ultra-filtration membranes blended with surface modifying macromolecules. <i>Separation and Purification Technology</i> , <b>2010</b> , 72, 123-132	8.3	31

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1	Influence of surface modifying macromolecules on the surface properties of poly(ether sulfone) ultra-filtration membranes. <i>Journal of Membrane Science</i> , <b>2009</b> , 338, 84-91	9.6	46