

# Dipak Rana

## List of Publications by Year in descending order

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164  
papers

8,179  
citations

31902

53  
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64668

79  
g-index

168  
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168  
docs citations

168  
times ranked

8714  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	4.0	347
2	Metal-organic frameworks supported on nanofibers to remove heavy metals. Journal of Materials Chemistry A, 2018, 6, 4550-4555.	5.2	261
3	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.	3.9	192
4	Strategies for effective oral insulin delivery with modified chitosan nanoparticles: A review. Progress in Polymer Science, 2012, 37, 1457-1475.	11.8	185
5	Effects of superhydrophobic SiO <sub>2</sub> nanoparticles on the performance of PVDF flat sheet membranes for vacuum membrane distillation. Desalination, 2015, 373, 47-57.	4.0	157
6	Development of antifouling thin-film-composite membranes for seawater desalination. Journal of Membrane Science, 2011, 367, 110-118.	4.1	155
7	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.	6.6	151
8	Influence of electrospun fiber size on the separation efficiency of thin film nanofiltration composite membrane. Journal of Membrane Science, 2012, 392-393, 101-111.	4.1	149
9	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.	5.2	129
10	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.	4.1	126
11	Effect of poly(vinyl pyrrolidone) on the morphology and physical properties of poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 International, 2013, 23, 579-587.	1.8	121
12	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.	4.8	121
13	Towards antibiofouling ultrafiltration membranes by blending silver containing surface modifying macromolecules. Chemical Communications, 2012, 48, 693-695.	2.2	118
14	Tailored polymer nanocomposite membranes based on carbon, metal oxide and silicon nanomaterials: a review. Journal of Materials Chemistry A, 2019, 7, 8723-8745.	5.2	112
15	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.	1.7	111
16	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.	4.6	110
17	Nano CuO/g-C <sub>3</sub> N <sub>4</sub> 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.	3.2	106
18	Studies on synthesis of reduced graphene oxide (RGO) via green route and its electrical property. Materials Research Bulletin, 2016, 79, 41-51.	2.7	101

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19	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> , 2019, 12, 2572-2584.	2.3	98
20	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> , 2013, 62, 117-123.	3.6	96
21	Metal-Organic Frameworks Supported on Nanofiber for Desalination by Direct Contact Membrane Distillation. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 11251-11260.	4.0	96
22	Enhanced performance of PVDF nanocomposite membrane by nanofiber coating: A membrane for sustainable desalination through MD. <i>Water Research</i> , 2016, 89, 39-49.	5.3	94
23	Pore wetting in membrane distillation: A comprehensive review. <i>Progress in Materials Science</i> , 2021, 122, 100843.	16.0	92
24	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> , 2018, 112, 633-643.	2.5	91
25	Studies on methylcellulose/pectin/montmorillonite nanocomposite films and their application possibilities. <i>Carbohydrate Polymers</i> , 2016, 136, 1218-1227.	5.1	89
26	Review: the characterization of electrospun nanofibrous liquid filtration membranes. <i>Journal of Materials Science</i> , 2014, 49, 6143-6159.	1.7	85
27	Influence of surface modifying macromolecules on the surface properties of poly(ether sulfone) ultra-filtration membranes. <i>Journal of Membrane Science</i> , 2009, 338, 84-91.	4.1	83
28	Effects of hydrophilic CuO nanoparticles on properties and performance of PVDF VMD membranes. <i>Desalination</i> , 2015, 369, 75-84.	4.0	83
29	Biodegradable toughened nanohybrid shape memory polymer for smart biomedical applications. <i>Nanoscale</i> , 2018, 10, 9917-9934.	2.8	79
30	Effects of Inorganic Nano-Additives on Properties and Performance of Polymeric Membranes in Water Treatment. <i>Separation and Purification Reviews</i> , 2016, 45, 141-167.	2.8	78
31	Preparation and characterization of surface modified electrospun membranes for higher filtration flux. <i>Journal of Membrane Science</i> , 2012, 390-391, 235-242.	4.1	75
32	Enhancements of Catalyst Distribution and Functioning Upon Utilization of Conducting Polymers as Supporting Matrices in DMFCs: A Review. <i>Polymer Reviews</i> , 2015, 55, 1-56.	5.3	74
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> , 2014, 48, 55-59.	1.6	71
34	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> , 2010, 72, 123-132.	3.9	69
35	Synthesis and characterization of graphene from waste dry cell battery for electronic applications. <i>RSC Advances</i> , 2016, 6, 10557-10564.	1.7	69
36	Reversible Bidirectional Shape Memory Effect in Polyurethanes through Molecular Flipping. <i>Macromolecules</i> , 2016, 49, 4889-4897.	2.2	67

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37	Removal of disinfection byproducts from water by carbonized electrospun nanofibrous membranes. Separation and Purification Technology, 2010, 74, 202-212.	3.9	66
38	Cellulose nanofibrils/chitosan based transdermal drug delivery vehicle for controlled release of ketorolac tromethamine. New Journal of Chemistry, 2017, 41, 15312-15319.	1.4	64
39	Physical and electrochemical characterization of reduced graphene oxide/silver nanocomposites synthesized by adopting a green approach. RSC Advances, 2015, 5, 25357-25364.	1.7	63
40	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.	3.6	62
41	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.	3.8	62
42	Enhanced visible-light-responsive photocatalytic property of PbS-sensitized K4Nb6O17 nanocomposite photocatalysts. Applied Surface Science, 2013, 276, 823-831.	3.1	60
43	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.	3.9	60
44	Study on structure and vacuum membrane distillation performance of PVDF membranes: II. Influence of molecular weight. Chemical Engineering Journal, 2015, 276, 174-184.	6.6	59
45	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.	1.2	58
46	Antibacterial activity of Ag@Au alloy NPs and chemical sensor property of Au NPs synthesized by dextran. Carbohydrate Polymers, 2014, 107, 151-157.	5.1	57
47	In situ synthesis of a reduced graphene oxide/cuprous oxide nanocomposite: a reusable catalyst. RSC Advances, 2014, 4, 52044-52052.	1.7	57
48	Antimicrobial activity and biodegradation behavior of poly(butylene terephthalate) (PBT) membranes. Journal of Membrane Science, 2013, 461, 1-10.	1.3	57
49	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.	3.9	56
50	Taro corms mucilage/HPMC based transdermal patch: An efficient device for delivery of diltiazem hydrochloride. International Journal of Biological Macromolecules, 2014, 66, 158-165.	3.6	56
51	Synthesis of PbS@K2La2Ti3O10 composite and its photocatalytic activity for hydrogen production. Progress in Natural Science: Materials International, 2012, 22, 120-125.	1.8	55
52	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.	3.9	55
53	Pharmaceutical and personal care products removal from drinking water by modified cellulose acetate membrane: Field testing. Chemical Engineering Journal, 2013, 225, 848-856.	6.6	54
54	Tailored SPVdF-co-HFP/SGO nanocomposite proton exchange membranes for direct methanol fuel cells. Polymer, 2018, 140, 22-32.	1.8	54

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55	Effect of methyl cellulose on gelation behavior and drug release from poloxamer based ophthalmic formulations. <i>International Journal of Biological Macromolecules</i> , 2015, 72, 706-710.	3.6	53
56	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> , 2019, 76, 141-149.	2.9	53
57	Custom-made sulfonated poly (ether sulfone) nanocomposite proton exchange membranes using exfoliated molybdenum disulfide nanosheets for DMFC applications. <i>Polymer</i> , 2018, 147, 48-55.	1.8	51
58	Synergistic effect of salt mixture on the gelation temperature and morphology of methylcellulose hydrogel. <i>International Journal of Biological Macromolecules</i> , 2012, 51, 831-836.	3.6	49
59	Engineered Cellular Uptake and Controlled Drug Delivery Using Two Dimensional Nanoparticle and Polymer for Cancer Treatment. <i>Molecular Pharmaceutics</i> , 2018, 15, 679-694.	2.3	49
60	Studies of the kinetics and mechanism of the removal process of proflavine dye through adsorption by graphene oxide. <i>Journal of Molecular Liquids</i> , 2017, 230, 696-704.	2.3	47
61	Effect of clay concentration on morphology and properties of hydroxypropylmethylcellulose films. <i>Carbohydrate Polymers</i> , 2013, 96, 57-63.	5.1	46
62	Synthesis of RGO/NiO nanocomposites adopting a green approach and its photocatalytic and antibacterial properties. <i>Materials Chemistry and Physics</i> , 2020, 247, 122906.	2.0	45
63	Chemical precipitation enabled UF and MF filtration for lead removal. <i>Journal of Water Process Engineering</i> , 2021, 41, 101987.	2.6	45
64	Tailored PVDF nanocomposite membranes using exfoliated MoS <sub>2</sub> nanosheets for improved permeation and antifouling performance. <i>New Journal of Chemistry</i> , 2017, 41, 14315-14324.	1.4	44
65	Custom-made PEI/exfoliated-MoS <sub>2</sub> nanocomposite ultrafiltration membranes for separation of bovine serum albumin and humic acid. <i>Materials Science and Engineering C</i> , 2018, 83, 108-114.	3.8	44
66	Investigating the usefulness of chitosan based proton exchange membranes tailored with exfoliated molybdenum disulfide nanosheets for clean energy applications. <i>Carbohydrate Polymers</i> , 2019, 208, 504-512.	5.1	44
67	Green Synthesis of Silver Nanoparticles Using <i>Paederia foetida L.</i> Leaf Extract and Assessment of Their Antimicrobial Activities. <i>International Journal of Green Nanotechnology</i> , 2012, 4, 230-239.	0.3	43
68	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> , 2018, 4, 514-531.	2.6	43
69	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> , 2018, 116, 1037-1048.	3.6	43
70	Studies on carboxylated graphene oxide incorporated polyetherimide mixed matrix ultrafiltration membranes. <i>Materials Chemistry and Physics</i> , 2017, 186, 146-158.	2.0	41
71	Bio-derived cellulose nanofibril reinforced poly(N-isopropylacrylamide)-g-guar gum nanocomposite: An avant-garde biomaterial as a transdermal membrane. <i>Polymer</i> , 2018, 135, 85-102.	1.8	41
72	Synthesis of methylcellulose/cellulose nano-crystals nanocomposites: Material properties and study of sustained release of ketorolac tromethamine. <i>Carbohydrate Polymers</i> , 2018, 188, 168-180.	5.1	40

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73	Triple-Layered Nanofibrous Metal-Organic Framework-Based Membranes for Desalination by Direct Contact Membrane Distillation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6601-6610.	3.2	40
74	Green synthesis of silver nanoparticles-based nanofluids and investigation of their antimicrobial activities. <i>Microfluidics and Nanofluidics</i> , 2014, 16, 541-551.	1.0	39
75	Functionalized poly(vinylidene fluoride) nanohybrid for superior fuel cell membrane. <i>Journal of Membrane Science</i> , 2015, 481, 124-136.	4.1	39
76	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> , 2018, 109, 1246-1252.	3.6	39
77	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> , 2015, 54, 7899-7913.	1.8	38
78	Dielectric relaxation in polyvinyl alcohol-polypyrrole-multiwall carbon nanotube composites below room temperature. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2013, 4, 025005.	0.7	37
79	Polymer Electrolyte Membranes for Microbial Fuel Cells: A Review. <i>Polymer Reviews</i> , 2018, 58, 610-629.	5.3	37
80	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> , 2012, 50, 565-572.	3.6	36
81	Development of solid super desiccants based on a polymeric superabsorbent hydrogel composite. <i>RSC Advances</i> , 2015, 5, 59583-59590.	1.7	36
82	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> , 2016, 164, 56-62.	3.9	36
83	Nanocomposite films based on cellulose acetate/polyethylene glycol/modified montmorillonite as nontoxic active packaging material. <i>RSC Advances</i> , 2016, 6, 92569-92578.	1.7	36
84	Sulfonated poly (ether sulfone)/poly (vinyl alcohol) blend membranes customized with tungsten disulfide nanosheets for DMFC applications. <i>Polymer</i> , 2018, 155, 42-49.	1.8	36
85	Fabrication of anti-fouling PVDF nanocomposite membranes using manganese dioxide nanospheres with tailored morphology, hydrophilicity and permeation. <i>New Journal of Chemistry</i> , 2018, 42, 15803-15810.	1.4	36
86	Highly permeable, antifouling and antibacterial poly(ether imide) membranes tailored with poly(hexamethylenebiguanide) coated copper oxide nanoparticles. <i>Materials Chemistry and Physics</i> , 2020, 240, 122224.	2.0	36
87	Influence of graphene on self-assembly of polyurethane and evaluation of its biomedical properties. <i>Polymer</i> , 2015, 65, 183-192.	1.8	35
88	Investigation on Sodium Benzoate Release from Poly(Butylene) Terephthalate/Overlock 10 Tf 50 147 Td (Adipate-co-Terephthalate) Antimicrobial Activity. <i>Journal of Food Science</i> , 2015, 80, E602-9.	1.5	35
89	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> , 2017, 41, 9461-9471.	1.4	35
90	Zero thermal input membrane distillation, a zero-waste and sustainable solution for freshwater shortage. <i>Applied Energy</i> , 2017, 187, 910-928.	5.1	35

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91	Synergic effects of hydrophilic and hydrophobic nanoparticles on performance of nanocomposite distillation membranes: An experimental and numerical study. <i>Separation and Purification Technology</i> , 2018, 202, 45-58.	3.9	35
92	Versatility of hydrophilic and antifouling PVDF ultrafiltration membranes tailored with polyhexanide coated copper oxide nanoparticles. <i>Polymer Testing</i> , 2020, 84, 106367.	2.3	35
93	Superior biomaterials using diamine modified graphene grafted polyurethane. <i>Polymer</i> , 2016, 106, 109-119.	1.8	34
94	Separation of oil/water emulsions using nano MgO anchored hybrid ultrafiltration membranes for environmental abatement. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	33
95	Modeling of pore wetting in vacuum membrane distillation. <i>Journal of Membrane Science</i> , 2019, 572, 332-342.	4.1	33
96	Assessment of morphology and property of graphene oxide-hydroxypropylmethylcellulose nanocomposite films. <i>International Journal of Biological Macromolecules</i> , 2014, 66, 338-345.	3.6	31
97	Dextrin-mediated synthesis of Ag NPs for colorimetric assays of Cu <sup>2+</sup> ion and Au NPs for catalytic activity. <i>International Journal of Biological Macromolecules</i> , 2015, 80, 309-316.	3.6	31
98	Green one step morphosynthesis of silver nanoparticles and their antibacterial and anticancerous activities. <i>New Journal of Chemistry</i> , 2016, 40, 2749-2762.	1.4	31
99	Cellulose acetate ultrafiltration membranes customized with bio-inspired polydopamine coating and <i>in situ</i> immobilization of silver nanoparticles. <i>New Journal of Chemistry</i> , 2019, 43, 4216-4225.	1.4	31
100	Effect of PEG-salt mixture on the gelation temperature and morphology of MC gel for sustained delivery of drug. <i>Carbohydrate Polymers</i> , 2013, 91, 529-536.	5.1	30
101	Criteria for the selection of a support material to fabricate coated membranes for a life support device. <i>RSC Advances</i> , 2014, 4, 38711-38717.	1.7	30
102	The performance of polyvinylidene fluoride - polytetrafluoroethylene nanocomposite distillation membranes: An experimental and numerical study. <i>Separation and Purification Technology</i> , 2019, 226, 192-208.	3.9	30
103	The rubber-filler interaction and reinforcement in styrene butadiene rubber/devulcanize natural rubber composites with silica-graphene oxide. <i>Polymer Composites</i> , 2019, 40, E1559.	2.3	29
104	Customized antifouling polyacrylonitrile ultrafiltration membranes for effective removal of organic contaminants from aqueous stream. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 859-868.	1.6	29
105	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> , 2020, 241, 116685.	3.9	29
106	Effect of nanoparticle on the mechanical and gas barrier properties of thermoplastic polyurethane. <i>Applied Clay Science</i> , 2017, 146, 468-474.	2.6	28
107	Fabrication of novel aromatic amine functionalized nanofiltration (NF) membranes and testing its dye removal and desalting ability. <i>Polymer Testing</i> , 2018, 72, 1-10.	2.3	28
108	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> , 2015, 3, 10413-10424.	5.2	27

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109	Graphene as a chain extender of polyurethanes for biomedical applications. RSC Advances, 2016, 6, 58628-58640.	1.7	27
110	Cellulose acetate nanocomposite ultrafiltration membranes tailored with hydrous manganese dioxide nanoparticles for water treatment applications. Polymers for Advanced Technologies, 2019, 30, 1943-1950.	1.6	27
111	Physical and electrical characterization of reduced graphene oxide synthesized adopting green route. Bulletin of Materials Science, 2016, 39, 543-550.	0.8	26
112	Novel shape memory behaviour in IPDI based polyurethanes: Influence of nanoparticle. Polymer, 2017, 110, 95-104.	1.8	26
113	Microstructure of polyacrylonitrile-based activated carbon fibers prepared from solvent-free coagulation process. Journal of Applied Research and Technology, 2016, 14, 54-61.	0.6	25
114	Mechanical and wear behaviour of poly(vinylidene fluoride)/clay nanocomposite. Journal of Materials Research and Technology, 2019, 8, 5874-5881.	2.6	25
115	Selective sensing of dopamine by sodium cholate tailored polypyrrole-silver nanocomposite. Synthetic Metals, 2020, 260, 116296.	2.1	25
116	CFD-based genetic programming model for liquid entry pressure estimation of hydrophobic membranes. Desalination, 2020, 476, 114231.	4.0	25
117	Development of plasma and/or chemically induced graft co-polymerized electrospun poly(vinylidene fluoride)/graphene oxide nanocomposite. Journal of Applied Research and Technology, 2016, 14, 54-61.	0.784314	24
118	Effect of carrageenan and potassium chloride on an in situ gelling ophthalmic drug delivery system based on methylcellulose. RSC Advances, 2015, 5, 60386-60391.	1.7	24
119	Development of active packaging material based on cellulose acetate butyrate/polyethylene glycol/aryl ammonium cation modified clay. Carbohydrate Polymers, 2018, 187, 8-18.	5.1	24
120	Polythiophenes: An emerging class of promising water purifying materials. European Polymer Journal, 2019, 116, 370-385.	2.6	23
121	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.	1.7	22
122	Transport characteristics of liquid-gas interface in a capillary membrane pore. Journal of Membrane Science, 2020, 611, 118387.	4.1	22
123	Cellulose acetate ultrafiltration membranes customized with copper oxide nanoparticles for efficient separation with antifouling behavior. Journal of Applied Polymer Science, 2021, 138, 49867.	1.3	22
124	Biosurfactant tailored synthesis of porous polypyrrole nanostructures: A facile approach towards CO <sub>2</sub> adsorption and dopamine sensing. Synthetic Metals, 2018, 245, 209-222.	2.1	21
125	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.	2.0	21
126	Nanoclay and swift heavy ions induced piezoelectric and conducting nanochannel based polymeric membrane for fuel cell. Journal of Power Sources, 2016, 301, 338-347.	4.0	20



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127	In situ fluorescence of lac dye stabilized gold nanoparticles; DNA binding assay and toxicity study. <i>New Journal of Chemistry</i> , 2016, 40, 7121-7131.	1.4	19
128	Structural, mechanical, and gas barrier properties of poly(ethylene terephthalate) nanohybrid using nanotalc. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48607.	1.3	19
129	Electrical transport properties of the composite of multiwall carbon nanotubeâ€“polypyrroleâ€“polyvinyl alcohol below room temperature. <i>Polymer Composites</i> , 2012, 33, 343-352.	2.3	18
130	<i>In situ</i> fabrication of polyanilineâ€“silver nanocomposites using soft template of sodium alginate. <i>Journal of Applied Polymer Science</i> , 2013, 129, 3551-3557.	1.3	18
131	Functionalized MWCNTs in improving the performance and biocompatibility of potential hemodialysis membranes. <i>RSC Advances</i> , 2016, 6, 63156-63170.	1.7	18
132	Novel surface modifying macromolecules (SMMs) blended polysulfone gas separation membranes by phase inversion technique. <i>Journal of Applied Polymer Science</i> , 2012, 124, 2287-2299.	1.3	17
133	Ploxamer and gelatin gel guided polyaniline nanofibers: synthesis and characterization. <i>Polymer International</i> , 2014, 63, 1505-1512.	1.6	17
134	Green approaches to synthesize reduced graphene oxide and assessment of its electrical properties. <i>Nano Structures Nano Objects</i> , 2019, 19, 100362.	1.9	17
135	Investigating the efficacy of PVDF membranes customized with sulfonated graphene oxide nanosheets for enhanced permeability and antifouling. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104426.	3.3	17
136	Investigation of the versatility of SPES membranes customized with sulfonated molybdenum disulfide nanosheets for DMFC applications. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 15507-15520.	3.8	16
137	Synthesis of sodium cholate mediated rod-like polypyrrole-silver nanocomposite for selective sensing of acetone vapor. <i>Nano Structures Nano Objects</i> , 2020, 21, 100419.	1.9	16
138	The gamut of perspectives, challenges, and recent trends for <i>in situ</i> hydrogels: a smart ophthalmic drug delivery vehicle. <i>Biomaterials Science</i> , 2020, 8, 4665-4691.	2.6	15
139	Carbon Nanomaterials in Renewable Energy Production and Storage Applications. <i>Environmental Chemistry for A Sustainable World</i> , 2019, , 51-104.	0.3	14
140	Performances of poly(vinylidene fluoride-co-hexafluoropropylene) ultrafiltration membranes modified with poly(vinyl pyrrolidone). <i>Polymer Engineering and Science</i> , 2015, 55, 2482-2492.	1.5	13
141	PFOM fillers embedded PVDF/cellulose dual-layered membranes with hydrophobicâ€“hydrophilic channels for desalination <i>via</i> direct contact membrane distillation process. <i>RSC Advances</i> , 2019, 9, 41462-41474.	1.7	12
142	Sulfonated poly(phenylene ether ether sulfone) membrane tailored with layerâ€“byâ€“layer selfâ€“assembly of poly(diallyldimethylammonium chloride) and phosphotungstic acid for DMFC applications. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47344.	1.3	12
143	Potency of nanolay on structural, mechanical and gas barrier properties of poly(ethylene Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.2	12
144	Examination of the bubble gas transport method to estimate the membrane pore size distribution. <i>Desalination</i> , 2022, 531, 115714.	4.0	12

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145	Improvement in mechanical and structural properties of poly(ethylene terephthalate) nanohybrid. SN Applied Sciences, 2019, 1, 1.	1.5	11
146	Sulfonated poly (ether sulfone) composite membranes customized with polydopamine coated molybdenum disulfide nanosheets for renewable energy devices. Polymer, 2019, 175, 255-264.	1.8	11
147	Custom-made sulfonated poly (vinylidene fluoride-co-hexafluoropropylene) nanocomposite membranes for vanadium redox flow battery applications. Polymer Testing, 2020, 90, 106685.	2.3	11
148	Development of Membrane-Based Desiccant Fiber for Vacuum Desiccant Cooling. ACS Applied Materials & Interfaces, 2016, 8, 15778-15787.	4.0	10
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