Geetanjali Shukla

List of Publications by Year
in descending order

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68	3,311	136885	149623
papers	citations	32 h-index	56 g-index

68	68	68	3115
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Organicâ€“inorganic nanocomposite polymer electrolyte membranes for fuel cell applications. Progress in Polymer Science, 2011, 36, 945-979.	11.8	515
2	Crosslinked chitosan/polyvinyl alcohol blend beads for removal and recovery of Cd(II) from wastewater. Journal of Hazardous Materials, 2009, 172, 1041-1048.	6.5	208
3	Preparation and characterization of mono-valent ion selective polypyrrole composite ion-exchange membranes. Journal of Membrane Science, 2006, 280, 210-218.	4.1	162
4	Sulfonated Polyimide/Acid-Functionalized Graphene Oxide Composite Polymer Electrolyte Membranes with Improved Proton Conductivity and Water-Retention Properties. ACS Applied Materials & Interfaces, 2014, 6, 16993-17002.	4.0	129
5	Graphene oxide based nanohybrid proton exchange membranes for fuel cell applications: An overview. Advances in Colloid and Interface Science, 2017, 240, 15-30.	7.0	123
6	Cross-Linked Poly(vinyl alcohol)â^'Poly(acrylonitrile-co-2-dimethylamino ethylmethacrylate) Based Anion-Exchange Membranes in Aqueous Media. Journal of Physical Chemistry B, 2010, 114, 198-206.	1.2	103
7	Preparation and characterization of monovalent cation selective sulfonated poly(ether ether ketone) and poly(ether sulfone) composite membranes. Journal of Colloid and Interface Science, 2006, 298, 845-853.	5.0	95
8	Silver nanoparticles built-in chitosan modified glassy carbon electrode for anodic stripping analysis of As(III) and its removal from water. Electrochimica Acta, 2012, 72, 157-164.	2.6	81
9	Stable and hydroxide ion conductive membranes for fuel cell applications: Chloromethyaltion and amination of poly(ether ether ketone). Journal of Membrane Science, 2013, 428, 470-479.	4.1	77
10	A green method for the preparation of highly stable organic-inorganic hybrid anion-exchange membranes in aqueous media for electrochemical processes. Polymer Chemistry, 2010, 1, 1302.	1.9	75
11	Ionic transport phenomenon across solâ€“gel derived organicâ€“inorganic composite mono-valent cation selective membranes. Journal of Membrane Science, 2009, 340, 52-61.	4.1	70
12	Stable ion-exchange membranes for water desalination by electrodialysis. Desalination, 2011, 282, 2-8.	4.0	69
13	Highly stable aprotic ionic-liquid doped anhydrous proton-conducting polymer electrolyte membrane for high-temperature applications. Journal of Materials Chemistry, 2011, 21, 4117.	6.7	65
14	Highly charged and stable cross-linked 4,4â€²-bis(4-aminophenoxy)biphenyl-3,3â€²-disulfonic acid (BAPBDS)-sulfonated poly(ether sulfone) polymer electrolyte membranes impervious to methanol. Journal of Materials Chemistry, 2010, 20, 8036.	6.7	59
15	Sulphonated imidized graphene oxide (SIGO) based polymer electrolyte membrane for improved water retention, stability and proton conductivity. Journal of Power Sources, 2015, 299, 104-113.	4.0	59
16	Poly(arylene ether ketone) Copolymer Grafted with Amine Groups Containing a Long Alkyl Chain by Chloroacetylation for Improved Alkaline Stability and Conductivity of Anion Exchange Membrane. ACS Applied Energy Materials, 2018, 1, 1175-1182.	2.5	59
17	Highly stable proton conducting nanocomposite polymer electrolyte membrane (PEM) prepared by pore modifications: An extremely low methanol permeable PEM. Journal of Membrane Science, 2009, 327, 145-154.	4.1	58
18	High-performance membrane for vanadium redox flow batteries: Cross-linked poly(ether ether ketone) grafted with sulfonic acid groups via the spacer. Journal of Membrane Science, 2019, 583, 1-8.	4.1	53

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19	Functionalized biopolymer based bipolar membrane with poly ethylene glycol interfacial layer for improved water splitting. Journal of Membrane Science, 2011, 372, 249-257.	4.1	46
20	Aliphatic-aromatic sulphonated polyimide and acid functionalized polysilsesquioxane composite membranes for fuel cell applications. Journal of Materials Chemistry A, 2013, 1, 14375.	5.2	42
21	Functionalized silicaâ€“chitosan hybrid membrane for dehydration of ethanol/water azeotrope: Effect of cross-linking on structure and performance. Journal of Membrane Science, 2013, 444, 116-126.	4.1	42
22	A N-o-sulphonic acid benzyl chitosan (NSBC) and N,N-dimethylene phosphonic acid propylsilane graphene oxide (NMPSGO) based multi-functional polymer electrolyte membrane with enhanced water retention and conductivity. RSC Advances, 2014, 4, 57200-57209.	1.7	42
23	Di-quaternized graphene oxide based multi-cationic cross-linked monovalent selective anion exchange membrane for electrodialysis. Separation and Purification Technology, 2021, 276, 119361.	3.9	40
24	Temperature resistant phosphorylated graphene oxide-sulphonated polyimide composite cation exchange membrane for water desalination with improved performance. Journal of Membrane Science, 2016, 520, 972-982.	4.1	39
25	Sulfonated poly(ether ether ketone)/imidized graphene oxide composite cation exchange membrane with improved conductivity and stability for electrodialytic water desalination. Desalination, 2019, 451, 200-208.	4.0	39
26	Nano-fibrous sulfonated poly(ether ether ketone) membrane for selective electro-transport of ions. Separation and Purification Technology, 2010, 75, 174-182.	3.9	38
27	Bifunctionalized organicâ€“inorganic charged nanocomposite membrane for pervaporation dehydration of ethanol. Journal of Colloid and Interface Science, 2010, 346, 54-60.	5.0	37
28	2-Acrylamido-2-methyl-1-propanesulfonic Acid Grafted Poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (fluoride-co-l Membrane Electrolysis. ACS Applied Materials & Interfaces, 2015, 7, 28524-28533.	4.0	35
29	Controlled metal loading on poly(2-acrylamido-2-methyl-propane-sulfonic acid) membranes by an ion-exchange process to improve electrodialytic separation performance for mono-/bi-valent ions. Journal of Materials Chemistry A, 2015, 3, 18279-18288.	5.2	34
30	Phosphorylated cellulose triacetateâ€“silica composite adsorbent for recovery of heavy metal ion. Carbohydrate Polymers, 2016, 136, 1315-1322.	5.1	34
31	Cross-linked amphoteric membrane: Sulphonated poly(ether ether ketone) grafted with 2,4,6-tris(dimethylaminomethyl)phenol using functionalized side chain spacers for vanadium redox flow battery. Journal of Power Sources, 2020, 448, 227358.	4.0	34
32	Temperature resistant cross-linked brominated poly phenylene oxide-functionalized graphene oxide nanocomposite anion exchange membrane for desalination. Separation and Purification Technology, 2021, 255, 117730.	3.9	34
33	Efficient Bipolar Membrane with Functionalized Graphene Oxide Interfacial Layer for Water Splitting and Converting Salt into Acid/Base by Electrodialysis. Industrial & Engineering Chemistry Research, 2018, 57, 1129-1136.	1.8	32
34	Electrochemical membrane reactor: Synthesis of quaternary ammonium hydroxide from its halide by in situ ion substitution. Electrochimica Acta, 2009, 54, 1630-1637.	2.6	31
35	Efficient and stable anion exchange membrane: Tuned membrane permeability and charge density for molecular/ionic separation. Journal of Membrane Science, 2015, 496, 250-258.	4.1	31
36	Efficient bipolar membrane with protein interfacial layer for optimal water splitting. Journal of Industrial and Engineering Chemistry, 2017, 47, 141-149.	2.9	31

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37	Multi-block poly(arylene ether)s containing pre-choloromethylated bisphenol: anion conductive ionomers. Journal of Materials Chemistry A, 2013, 1, 6134.	5.2	29
38	Amine functionalized graphene oxide containing C16 chain grafted with poly(ether sulfone) by DABCO coupling: Anion exchange membrane for vanadium redox flow battery. Journal of Membrane Science, 2019, 575, 109-117.	4.1	29
39	Organicâ€“inorganic hybrid charged membranes for proteins separation: Isoelectric separation of proteins under coupled driving forces. Separation and Purification Technology, 2010, 70, 280-290.	3.9	28
40	Mixed metal nanoparticles loaded catalytic polymer membrane for solvent free selective oxidation of benzyl alcohol to benzaldehyde in a reactor. Applied Catalysis B: Environmental, 2013, 132-133, 62-69.	10.8	27
41	High performance cross-linked dehydro-halogenated poly (vinylidene fluoride-co-hexafluoro) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 Purification Technology, 2020, 234, 116078.	3.9	27
42	Effects of metal alkoxides on electro-assisted water dissociation across bipolar membranes. Electrochimica Acta, 2012, 66, 325-331.	2.6	26
43	Surface redox polymerized SPEEKâ€“MO2â€“PANI (M=Si, Zr and Ti) composite polyelectrolyte membranes impervious to methanol. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 340, 10-19.	2.3	25
44	Chlorine-tolerant poly electrolyte membrane for electrochemical dye degradation. Chemical Engineering Journal, 2011, 168, 108-114.	6.6	25
45	Electro-membrane reactor for separation and in situ ion substitution of glutamic acid from its sodium salt. Electrochimica Acta, 2009, 54, 4880-4887.	2.6	24
46	End group cross-linked 2-(dimethylamino) ethylmethacrylate based anion exchange membrane for electrodialysis. Journal of Membrane Science, 2013, 428, 86-94.	4.1	24
47	Heterogeneousâ€“homogeneous composite bipolar membrane for the conversion of salt of homologous carboxylates into their corresponding acids and bases. Journal of Membrane Science, 2010, 349, 130-137.	4.1	23
48	Functionalized poly(vinylidene fluoride-co-hexafluoro propylene) membrane for fuel cell. Polymer, 2018, 151, 261-268.	1.8	23
49	pH controlled selective transport of proteins through charged ultrafilter membranes under coupled driving forces: An efficient process for protein separation. Journal of Membrane Science, 2007, 299, 211-221.	4.1	22
50	Well-designed mono- and di-functionalized comb-shaped poly(2,6-dimethylphenylene oxide) based alkaline stable anion exchange membrane for fuel cells. International Journal of Hydrogen Energy, 2018, 43, 21742-21749.	3.8	22
51	Acid resistant sulphonated poly(vinylidene fluoride- co -hexafluoropropylene)/graphene oxide composite cation exchange for water splitting by iodine-sulfur bunsen process for hydrogen production. Journal of Membrane Science, 2018, 552, 377-386.	4.1	21
52	Cation-Exchange Membrane with Low Frictional Coefficient and High Limiting Current Density for Energy-Efficient Water Desalination. ACS Omega, 2018, 3, 10331-10340.	1.6	21
53	An improved process for separation of proteins using modified chitosanâ€“silica cross-linked charged ultrafilter membranes under coupled driving forces: Isoelectric separation of proteins. Journal of Colloid and Interface Science, 2008, 319, 252-262.	5.0	20
54	Stable and efficient composite anion-exchange membranes based on silica modified poly(ethyleneimine)â€“poly(vinyl alcohol) for electrodialysis. Journal of Membrane Science, 2014, 469, 478-487.	4.1	20

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55	The versatile, functional polyether, polyepichlorohydrin: History, synthesis, and applications. Journal of Polymer Science, 2021, 59, 2704-2718.	2.0	20
56	Preparation and electrochemical characterization of sulfonated polysulfone cation-exchange membranes: Effects of the solvents on the degree of sulfonation. Journal of Applied Polymer Science, 2005, 96, 2344-2351.	1.3	17
57	Electroâ€membrane process for the separation of amino acids by isoâ€electric focusing. Journal of Chemical Technology and Biotechnology, 2010, 85, 648-657.	1.6	17
58	(3-glycidoxypropyl) Trimethoxy silane induced switchable zwitterionic membrane with high protein capture and separation properties. Journal of Membrane Science, 2013, 444, 77-86.	4.1	15
59	Zirconium tri-ethylene tetra-amine ligand-chelator complex based cross-linked membrane for selective recovery of Cu2+ by electrodialysis. Journal of Membrane Science, 2013, 428, 462-469.	4.1	15
60	Preparation, characterization and thermal degradation studies of bi-functional cation-exchange membranes. Desalination, 2015, 367, 206-215.	4.0	12
61	The improved ion clustering and conductivity of a di-quaternized poly(arylene ether ketone) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	2.5	10
62	Self-assembled nanofiltration membrane containing antimicrobial organosilica prepared by solâ€“gel process. Desalination, 2013, 309, 275-283.	4.0	9
63	Micellar-enhanced electrodialysis: Influence of surfactants on the transport properties of ion-exchange membranes. Separation and Purification Technology, 2005, 47, 1-9.	3.9	8
64	Functionalized chitosan based nano-filter membranes for pH-controlled separation of amino acids. Separation and Purification Technology, 2013, 108, 57-64.	3.9	8
65	Alkaline stable thermal responsive cross-linked anion exchange membrane for the recovery of NaOH by electrodialysis. Desalination, 2020, 494, 114651.	4.0	8
66	Improved performance of vanadium redox flow battery with tuneable alkyl spacer based cross-linked anion exchange membranes. Journal of Power Sources, 2022, 520, 230856.	4.0	8
67	Caustic production from industrial green liquor using alkali resistant composite cation exchange membrane. Journal of Environmental Chemical Engineering, 2022, 10, 107016.	3.3	4
68	Acid stable bi-functional cation exchange membrane based on modified poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (fl 2020, 450, 227622.	4.0	3