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	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
2	Caustic production from industrial green liquor using alkali resistant composite cation exchange membrane. Journal of Environmental Chemical Engineering, 2022, 10, 107016.	3.3	4
3	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
4	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
5	The versatile, functional polyether, polyepichlorohydrin: History, synthesis, and applications. Journal of Polymer Science, 2021, 59, 2704-2718.	2.0	20
6	High performance cross-linked dehydro-halogenated poly (vinylidene fluoride-co-hexafluoro) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 T Purification Technology, 2020, 234, 116078.	3.9	27
7	Acid stable bi-functional cation exchange membrane based on modified poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 5 2020, 450, 227622.	4.0	3
8	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
9	Alkaline stable thermal responsive cross-linked anion exchange membrane for the recovery of NaOH by electrodialysis. Desalination, 2020, 494, 114651.	4.0	8
10	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
11	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
12	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
13	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
14	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
15	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
16	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
17	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
18	Functionalized poly(vinylidene fluoride-co-hexafluoro propylene) membrane for fuel cell. Polymer, 2018, 151, 261-268.	1.8	23

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19	Efficient bipolar membrane with protein interfacial layer for optimal water splitting. Journal of Industrial and Engineering Chemistry, 2017, 47, 141-149.	2.9	31
20	The improved ion clustering and conductivity of a di-quaternized poly(arylene ether ketone) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 T	2.5	10
21	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
22	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
23	Phosphorylated cellulose triacetateâ€“silica composite adsorbent for recovery of heavy metal ion. Carbohydrate Polymers, 2016, 136, 1315-1322.	5.1	34
24	2-Acrylamido-2-methyl-1-propanesulfonic Acid Grafted Poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td (fluoride-co-l Membrane Electrolysis. ACS Applied Materials & Interfaces, 2015, 7, 28524-28533.	4.0	35
25	Preparation, characterization and thermal degradation studies of bi-functional cation-exchange membranes. Desalination, 2015, 367, 206-215.	4.0	12
26	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
27	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
28	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
29	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
30	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
31	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
32	Multi-block poly(arylene ether)s containing pre-choloromethylated bisphenol: anion conductive ionomers. Journal of Materials Chemistry A, 2013, 1, 6134.	5.2	29
33	(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
34	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
35	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
36	End group cross-linked 2-(dimethylamino) ethylmethacrylate based anion exchange membrane for electrodialysis. Journal of Membrane Science, 2013, 428, 86-94.	4.1	24

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37	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
38	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
39	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
40	Functionalized chitosan based nano-filter membranes for pH-controlled separation of amino acids. Separation and Purification Technology, 2013, 108, 57-64.	3.9	8
41	Self-assembled nanofiltration membrane containing antimicrobial organosilica prepared by solâ€“gel process. Desalination, 2013, 309, 275-283.	4.0	9
42	Effects of metal alkoxides on electro-assisted water dissociation across bipolar membranes. Electrochimica Acta, 2012, 66, 325-331.	2.6	26
43	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
44	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
45	Stable ion-exchange membranes for water desalination by electrodialysis. Desalination, 2011, 282, 2-8.	4.0	69
46	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
47	Chlorine-tolerant poly electrolyte membrane for electrochemical dye degradation. Chemical Engineering Journal, 2011, 168, 108-114.	6.6	25
48	Organicâ€“inorganic nanocomposite polymer electrolyte membranes for fuel cell applications. Progress in Polymer Science, 2011, 36, 945-979.	11.8	515
49	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
50	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
51	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
52	Bifunctionalized organicâ€“inorganic charged nanocomposite membrane for pervaporation dehydration of ethanol. Journal of Colloid and Interface Science, 2010, 346, 54-60.	5.0	37
53	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
54	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

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55	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
56	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
57	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
58	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
59	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
60	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
61	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
62	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
63	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
64	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
65	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
66	Preparation and characterization of mono-valent ion selective polypyrrole composite ion-exchange membranes. Journal of Membrane Science, 2006, 280, 210-218.	4.1	162
67	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
68	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