Vinod K

List of Publications by Year
in descending order

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52	2,765	172457	175258
papers	citations	29 h-index	52 g-index

52	52	52	2834
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Membrane distillation crystallization technology for zero liquid discharge and resource recovery: Opportunities, challenges and futuristic perspectives. Science of the Total Environment, 2022, 806, 150692.	8.0	67
2	Improved performance of vanadium redox flow battery with tuneable alkyl spacer based cross-linked anion exchange membranes. Journal of Power Sources, 2022, 520, 230856.	7.8	8
3	Caustic production from industrial green liquor using alkali resistant composite cation exchange membrane. Journal of Environmental Chemical Engineering, 2022, 10, 107016.	6.7	4
4	Devising ultra-robust mixed-matrix membrane separators using functionalized MOFâ€“poly(phenylene) Tj ETQq0 0 0 rgBT /Overlock 10 T 10, 11150-11162.	10.3	17
5	Amphoteric Membrane Loaded with a Noble Metal-Free Hollow Spherical NiCoP@rGO Bifunctional Electrocatalyst for Alkaline Water Electrolyzers. ACS Applied Energy Materials, 2022, 5, 8611-8620.	5.1	6
6	Temperature resistant cross-linked brominated poly phenylene oxide-functionalized graphene oxide nanocomposite anion exchange membrane for desalination. Separation and Purification Technology, 2021, 255, 117730.	7.9	34
7	High performance cross-linked dehydro-halogenated poly (vinylidene fluoride-co-hexafluoro) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T Purification Technology, 2020, 234, 116078.	7.9	27
8	Assembly of MIL-101(Cr)-sulphonated poly(ether sulfone) membrane matrix for selective electrodialytic separation of Pb2+ from mono-/bi-valent ions. Chemical Engineering Journal, 2020, 382, 122688.	12.7	21
9	Alkaline stable thermal responsive cross-linked anion exchange membrane for the recovery of NaOH by electrodialysis. Desalination, 2020, 494, 114651.	8.2	8
10	Self-standing polyaniline membrane containing quaternary ammonium groups loaded with hollow spherical NiCo₂O₄ electrocatalyst for alkaline water electrolyser. Journal of Materials Chemistry A, 2020, 8, 17089-17097.	10.3	20
11	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.	8.2	53
12	Fabrication of a low-cost functionalized poly(vinylidene fluoride) nanohybrid membrane for superior fuel cells. Sustainable Energy and Fuels, 2019, 3, 1269-1282.	4.9	13
13	Selective Adsorption of Pb(II) from Aqueous Medium by Cross-Linked Chitosan-Functionalized Graphene Oxide Adsorbent. ACS Sustainable Chemistry and Engineering, 2019, 7, 1427-1436.	6.7	75
14	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.	8.2	29
15	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.	8.2	39
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.	5.1	59
17	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.	8.2	21
18	Poly(vinylidene fluoride-co-chlorotrifluoro ethylene) Nanohybrid Membrane for Fuel Cell. ACS Omega, 2018, 3, 917-928.	3.5	15

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19	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.	3.7	32
20	Graphene Oxideâ€“Polyaniline as a Water Dissociation Catalyst in the Interfacial Layer of Bipolar Membrane for Energy-Saving Production of Carboxylic Acids from Carboxylates by Electrodialysis. ACS Sustainable Chemistry and Engineering, 2018, 6, 3463-3471.	6.7	24
21	Cation-Exchange Membrane with Low Frictional Coefficient and High Limiting Current Density for Energy-Efficient Water Desalination. ACS Omega, 2018, 3, 10331-10340.	3.5	21
22	Functionalized poly(vinylidene fluoride-co-hexafluoro propylene) membrane for fuel cell. Polymer, 2018, 151, 261-268.	3.8	23
23	Efficient bipolar membrane with protein interfacial layer for optimal water splitting. Journal of Industrial and Engineering Chemistry, 2017, 47, 141-149.	5.8	31
24	The improved ion clustering and conductivity of a di-quaternized poly(arylene ether ketone) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 T	4.9	10
25	Alternative preparative route for efficient and stable anion-exchange membrane for water desalination by electrodialysis. Desalination, 2017, 413, 101-108.	8.2	34
26	Graphene oxide based nanohybrid proton exchange membranes for fuel cell applications: An overview. Advances in Colloid and Interface Science, 2017, 240, 15-30.	14.7	123
27	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.	8.2	39
28	Nanoclay and swift heavy ions induced piezoelectric and conducting nanochannel based polymeric membrane for fuel cell. Journal of Power Sources, 2016, 301, 338-347.	7.8	20
29	Phosphorylated cellulose triacetateâ€“silica composite adsorbent for recovery of heavy metal ion. Carbohydrate Polymers, 2016, 136, 1315-1322.	10.2	34
30	2-Acrylamido-2-methyl-1-propanesulfonic Acid Grafted Poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td (fluoride-co- Membrane Electrolysis. ACS Applied Materials & Interfaces, 2015, 7, 28524-28533.	8.0	35
31	Functionalized poly(vinylidene fluoride) nanohybrid for superior fuel cell membrane. Journal of Membrane Science, 2015, 481, 124-136.	8.2	39
32	Preparation, characterization and thermal degradation studies of bi-functional cation-exchange membranes. Desalination, 2015, 367, 206-215.	8.2	12
33	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.	10.3	27
34	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.	10.3	34
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.	8.2	31
36	An improved protocol for electrodialytic desalination yielding mineral-balanced potable water. Desalination, 2014, 335, 96-101.	8.2	16

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37	Nanostructured manganese oxideâ€“chitosan-based cholesterol sensor. Journal of Applied Electrochemistry, 2014, 44, 953-962.	2.9	24
38	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.	8.0	129
39	Aliphatic-aromatic sulphonated polyimide and acid functionalized polysilsesquioxane composite membranes for fuel cell applications. Journal of Materials Chemistry A, 2013, 1, 14375.	10.3	42
40	Cross-linked Hybrid Nanofiltration Membrane with Antibiofouling Properties and Self-Assembled Layered Morphology. ACS Applied Materials & Interfaces, 2012, 4, 1683-1692.	8.0	55
41	Effects of metal alkoxides on electro-assisted water dissociation across bipolar membranes. Electrochimica Acta, 2012, 66, 325-331.	5.2	26
42	Functionalized biopolymer based bipolar membrane with poly ethylene glycol interfacial layer for improved water splitting. Journal of Membrane Science, 2011, 372, 249-257.	8.2	46
43	Organicâ€“inorganic nanocomposite polymer electrolyte membranes for fuel cell applications. Progress in Polymer Science, 2011, 36, 945-979.	24.7	515
44	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.	8.2	23
45	Organic-inorganic hybrid alkaline membranes by epoxide ring opening for direct methanol fuel cell applications. Journal of Membrane Science, 2010, 360, 90-101.	8.2	88
46	Solâ€“gel derived poly(vinyl alcohol)-3-(2-aminoethylamino) propyl trimethoxysilane: Cross-linked organicâ€“inorganic hybrid beads for the removal of Pb(II) from aqueous solution. Chemical Engineering Journal, 2010, 162, 28-36.	12.7	52
47	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.	3.9	75
48	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.	2.6	103
49	Ionic transport phenomenon across solâ€“gel derived organicâ€“inorganic composite mono-valent cation selective membranes. Journal of Membrane Science, 2009, 340, 52-61.	8.2	70
50	Crosslinked chitosan/polyvinyl alcohol blend beads for removal and recovery of Cd(II) from wastewater. Journal of Hazardous Materials, 2009, 172, 1041-1048.	12.4	208
51	3-[[3-(Triethoxysilyl)propyl]amino]propane-1-sulfonic Acidâ^'Poly(vinyl alcohol) Cross-Linked Zwitterionic Polymer Electrolyte Membranes for Direct Methanol Fuel Cell Applications. ACS Applied Materials & Interfaces, 2009, 1, 1002-1012.	8.0	99
52	Phosphonic acid functionalized aminopropyl triethoxysilaneâ€“PVA composite material: organicâ€“inorganic hybrid proton-exchange membranes in aqueous media. Journal of Materials Chemistry, 2005, 15, 4823.	6.7	109