

Vinod K

List of Publications by Year in descending order

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52
papers

2,765
citations

172457

29
h-index

175258

52
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52
all docs

52
docs citations

52
times ranked

2834
citing authors

#	ARTICLE	IF	CITATIONS
1	Organic-inorganic nanocomposite polymer electrolyte membranes for fuel cell applications. <i>Progress in Polymer Science</i> , 2011, 36, 945-979.	24.7	515
2	Crosslinked chitosan/polyvinyl alcohol blend beads for removal and recovery of Cd(II) from wastewater. <i>Journal of Hazardous Materials</i> , 2009, 172, 1041-1048.	12.4	208
3	Sulfonated Polyimide/Acid-Functionalized Graphene Oxide Composite Polymer Electrolyte Membranes with Improved Proton Conductivity and Water-Retention Properties. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 16993-17002.	8.0	129
4	Graphene oxide based nanohybrid proton exchange membranes for fuel cell applications: An overview. <i>Advances in Colloid and Interface Science</i> , 2017, 240, 15-30.	14.7	123
5	Phosphonic acid functionalized aminopropyl triethoxysilane-PVA composite material: organic-inorganic hybrid proton-exchange membranes in aqueous media. <i>Journal of Materials Chemistry</i> , 2005, 15, 4823.	6.7	109
6	Cross-Linked Poly(vinyl alcohol)-Poly(acrylonitrile-2-dimethylamino ethylmethacrylate) Based Anion-Exchange Membranes in Aqueous Media. <i>Journal of Physical Chemistry B</i> , 2010, 114, 198-206.	2.6	103
7	3-[[3-(Triethoxysilyl)propyl]amino]propane-1-sulfonic Acid-Poly(vinyl alcohol) Cross-Linked Zwitterionic Polymer Electrolyte Membranes for Direct Methanol Fuel Cell Applications. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 1002-1012.	8.0	99
8	Organic-inorganic hybrid alkaline membranes by epoxide ring opening for direct methanol fuel cell applications. <i>Journal of Membrane Science</i> , 2010, 360, 90-101.	8.2	88
9	A green method for the preparation of highly stable organic-inorganic hybrid anion-exchange membranes in aqueous media for electrochemical processes. <i>Polymer Chemistry</i> , 2010, 1, 1302.	3.9	75
10	Selective Adsorption of Pb(II) from Aqueous Medium by Cross-Linked Chitosan-Functionalized Graphene Oxide Adsorbent. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1427-1436.	6.7	75
11	Ionic transport phenomenon across sol-gel derived organic-inorganic composite mono-valent cation selective membranes. <i>Journal of Membrane Science</i> , 2009, 340, 52-61.	8.2	70
12	Membrane distillation crystallization technology for zero liquid discharge and resource recovery: Opportunities, challenges and futuristic perspectives. <i>Science of the Total Environment</i> , 2022, 806, 150692.	8.0	67
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. <i>ACS Applied Energy Materials</i> , 2018, 1, 1175-1182.	5.1	59
14	Cross-linked Hybrid Nanofiltration Membrane with Antibiofouling Properties and Self-Assembled Layered Morphology. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 1683-1692.	8.0	55
15	High-performance membrane for vanadium redox flow batteries: Cross-linked poly(ether ether ketone) grafted with sulfonic acid groups via the spacer. <i>Journal of Membrane Science</i> , 2019, 583, 1-8.	8.2	53
16	Sol-gel derived poly(vinyl alcohol)-3-(2-aminoethylamino) propyl trimethoxysilane: Cross-linked organic-inorganic hybrid beads for the removal of Pb(II) from aqueous solution. <i>Chemical Engineering Journal</i> , 2010, 162, 28-36.	12.7	52
17	Functionalized biopolymer based bipolar membrane with poly ethylene glycol interfacial layer for improved water splitting. <i>Journal of Membrane Science</i> , 2011, 372, 249-257.	8.2	46
18	Aliphatic-aromatic sulphonated polyimide and acid functionalized polysilsesquioxane composite membranes for fuel cell applications. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14375.	10.3	42

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19	Functionalized poly(vinylidene fluoride) nanohybrid for superior fuel cell membrane. <i>Journal of Membrane Science</i> , 2015, 481, 124-136.	8.2	39
20	Temperature resistant phosphorylated graphene oxide-sulphonated polyimide composite cation exchange membrane for water desalination with improved performance. <i>Journal of Membrane Science</i> , 2016, 520, 972-982.	8.2	39
21	Sulfonated poly(ether ether ketone)/imidized graphene oxide composite cation exchange membrane with improved conductivity and stability for electro-dialytic water desalination. <i>Desalination</i> , 2019, 451, 200-208.	8.2	39
22	2-Acrylamido-2-methyl-1-propanesulfonic Acid Grafted Poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (fluoride-<i>co</i> /i>-l Membrane Electrolysis. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 28524-28533.	8.0	35
23	Controlled metal loading on poly(2-acrylamido-2-methyl-propane-sulfonic acid) membranes by an ion-exchange process to improve electro-dialytic separation performance for mono-/bi-valent ions. <i>Journal of Materials Chemistry A</i> , 2015, 3, 18279-18288.	10.3	34
24	Phosphorylated cellulose triacetate-silica composite adsorbent for recovery of heavy metal ion. <i>Carbohydrate Polymers</i> , 2016, 136, 1315-1322.	10.2	34
25	Alternative preparative route for efficient and stable anion-exchange membrane for water desalination by electro-dialysis. <i>Desalination</i> , 2017, 413, 101-108.	8.2	34
26	Temperature resistant cross-linked brominated poly phenylene oxide-functionalized graphene oxide nanocomposite anion exchange membrane for desalination. <i>Separation and Purification Technology</i> , 2021, 255, 117730.	7.9	34
27	Efficient Bipolar Membrane with Functionalized Graphene Oxide Interfacial Layer for Water Splitting and Converting Salt into Acid/Base by Electro-dialysis. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 1129-1136.	3.7	32
28	Efficient and stable anion exchange membrane: Tuned membrane permeability and charge density for molecular/ionic separation. <i>Journal of Membrane Science</i> , 2015, 496, 250-258.	8.2	31
29	Efficient bipolar membrane with protein interfacial layer for optimal water splitting. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 47, 141-149.	5.8	31
30	Amine functionalized graphene oxide containing C16 chain grafted with poly(ether sulfone) by DABCO coupling: Anion exchange membrane for vanadium redox flow battery. <i>Journal of Membrane Science</i> , 2019, 575, 109-117.	8.2	29
31	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.	10.3	27
32	High performance cross-linked dehydro-halogenated poly (vinylidene fluoride-co-hexafluoro) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 T Purification Technology, 2020, 234, 116078.	7.9	27
33	Effects of metal alkoxides on electro-assisted water dissociation across bipolar membranes. <i>Electrochimica Acta</i> , 2012, 66, 325-331.	5.2	26
34	Nanostructured manganese oxide-chitosan-based cholesterol sensor. <i>Journal of Applied Electrochemistry</i> , 2014, 44, 953-962.	2.9	24
35	Graphene Oxide-Polyaniline as a Water Dissociation Catalyst in the Interfacial Layer of Bipolar Membrane for Energy-Saving Production of Carboxylic Acids from Carboxylates by Electro-dialysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3463-3471.	6.7	24
36	Heterogeneous-homogeneous composite bipolar membrane for the conversion of salt of homologous carboxylates into their corresponding acids and bases. <i>Journal of Membrane Science</i> , 2010, 349, 130-137.	8.2	23

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37	Functionalized poly(vinylidene fluoride-co-hexafluoro propylene) membrane for fuel cell. <i>Polymer</i> , 2018, 151, 261-268.	3.8	23
38	Acid resistant sulphonated poly(vinylidene fluoride-co-hexafluoropropylene)/graphene oxide composite cation exchange for water splitting by iodine-sulfur bunsen process for hydrogen production. <i>Journal of Membrane Science</i> , 2018, 552, 377-386.	8.2	21
39	Cation-Exchange Membrane with Low Frictional Coefficient and High Limiting Current Density for Energy-Efficient Water Desalination. <i>ACS Omega</i> , 2018, 3, 10331-10340.	3.5	21
40	Assembly of MIL-101(Cr)-sulphonated poly(ether sulfone) membrane matrix for selective electro-dialytic separation of Pb ²⁺ from mono-/bi-valent ions. <i>Chemical Engineering Journal</i> , 2020, 382, 122688.	12.7	21
41	Nanoclay and swift heavy ions induced piezoelectric and conducting nanochannel based polymeric membrane for fuel cell. <i>Journal of Power Sources</i> , 2016, 301, 338-347.	7.8	20
42	Self-standing polyaniline membrane containing quaternary ammonium groups loaded with hollow spherical NiCo ₂ O ₄ electrocatalyst for alkaline water electrolyser. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17089-17097.	10.3	20
43	Devising ultra-robust mixed-matrix membrane separators using functionalized MOF@poly(phenylene) Tj ETQq1 1 0.784314 rgBT /Over 10, 11150-11162.	10.3	17
44	An improved protocol for electro-dialytic desalination yielding mineral-balanced potable water. <i>Desalination</i> , 2014, 335, 96-101.	8.2	16
45	Poly(vinylidene fluoride-co-chlorotrifluoro ethylene) Nanohybrid Membrane for Fuel Cell. <i>ACS Omega</i> , 2018, 3, 917-928.	3.5	15
46	Fabrication of a low-cost functionalized poly(vinylidene fluoride) nanohybrid membrane for superior fuel cells. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1269-1282.	4.9	13
47	Preparation, characterization and thermal degradation studies of bi-functional cation-exchange membranes. <i>Desalination</i> , 2015, 367, 206-215.	8.2	12
48	The improved ion clustering and conductivity of a di-quaternized poly(arylene ether ketone) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 T	4.9	10
49	Alkaline stable thermal responsive cross-linked anion exchange membrane for the recovery of NaOH by electro-dialysis. <i>Desalination</i> , 2020, 494, 114651.	8.2	8
50	Improved performance of vanadium redox flow battery with tuneable alkyl spacer based cross-linked anion exchange membranes. <i>Journal of Power Sources</i> , 2022, 520, 230856.	7.8	8
51	Amphoteric Membrane Loaded with a Noble Metal-Free Hollow Spherical NiCoP@rGO Bifunctional Electrocatalyst for Alkaline Water Electrolyzers. <i>ACS Applied Energy Materials</i> , 2022, 5, 8611-8620.	5.1	6
52	Caustic production from industrial green liquor using alkali resistant composite cation exchange membrane. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107016.	6.7	4