Mahadevappa Y Kariduraganavar

List of Publications by Year
in descending order

72 papers	1,752 citations	279701 23 h-index	302012 39 g-index
74 all docs	74 docs citations	74 times ranked	1765 citing authors

#	Article	IF	Citations
1	Preparation and characterization of novel pervaporation membranes for the separation of waterâ€“isopropanol mixtures using chitosan and NaY zeolite. Journal of Membrane Science, 2005, 247, 75-86.	4.1	118
2	Pervaporation separation of waterâ€“acetic acid mixtures through poly(vinyl alcohol)-silicone based hybrid membranes. Journal of Membrane Science, 2005, 246, 83-93.	4.1	116
3	Synthesis and characterization of hybrid membranes using poly(vinyl alcohol) and tetraethylorthosilicate for the pervaporation separation of water-isopropanol mixtures. Journal of Applied Polymer Science, 2004, 94, 1304-1315.	1.3	91
4	Synthesis and characterization of sulfonated-poly(vinyl alcohol) membranes for the pervaporation dehydration of isopropanol. Journal of Membrane Science, 2011, 383, 224-234.	4.1	87
5	Novel approach for the development of pervaporation membranes using sodium alginate and chitosan-wrapped multiwalled carbon nanotubes for the dehydration of isopropanol. Journal of Membrane Science, 2013, 425-426, 77-88.	4.1	80
6	Sorption, diffusion, and pervaporation separation of water-acetic acid mixtures through the blend membranes of sodium alginate and guar gum-grafted-polyacrylamide. Journal of Applied Polymer Science, 2002, 83, 259-272.	1.3	62
7	Development of novel blocked diisocyanate crosslinked chitosan membranes for pervaporation separation of waterâ€“isopropanol mixtures. Journal of Membrane Science, 2007, 302, 197-206.	4.1	58
8	Synthesis, characterization and pervaporation performance of chitosan-g-polyaniline membranes for the dehydration of isopropanol. Journal of Membrane Science, 2010, 364, 111-121.	4.1	57
9	Modification of crosslinked chitosan membrane using NaY zeolite for pervaporation separation of waterâ€“isopropanol mixtures. Chemical Engineering Research and Design, 2015, 94, 32-43.	2.7	56
10	Synthesis and characterization of GTMAC grafted chitosan membranes for the dehydration of low water content isopropanol by pervaporation. Journal of Industrial and Engineering Chemistry, 2015, 25, 151-161.	2.9	54
11	Development of novel sulfonic acid functionalized zeolites incorporated composite proton exchange membranes for fuel cell application. Electrochimica Acta, 2019, 296, 294-307.	2.6	43
12	Development of novel grafted hybrid PVA membranes using glycidyltrimethylammonium chloride for pervaporation separation of waterâ€“isopropanol mixtures. Journal of Industrial and Engineering Chemistry, 2013, 19, 427-437.	2.9	40
13	Development of Doxorubicin-Loaded Magnetic Silicaâ€“Pluronic F-127 Nanocarriers Conjugated with Transferrin for Treating Glioblastoma across the Bloodâ€“Brain Barrier Using an in Vitro Model. ACS Omega, 2018, 3, 8017-8026.	1.6	38
14	Development of Hybrid Membranes Using Chitosan and Silica Precursors for Pervaporation Separation of Water + Isopropanol Mixtures. Journal of Chemical & Engineering Data, 2010, 55, 2084-2092.	1.0	33
15	A facile route for the preparation of proton exchange membranes using sulfonated side chain graphite oxides and crosslinked sodium alginate for fuel cell. Polymer, 2018, 142, 293-309.	1.8	32
16	Polyelectrolyte complex membranes made of chitosanâ€”PSSAMA for pervaporation separation of industrially important azeotropic mixtures. Journal of Industrial and Engineering Chemistry, 2019, 78, 383-395.	2.9	32
17	Co-delivery of paclitaxel and curcumin to foliate positive cancer cells using Pluronic-coated iron oxide nanoparticles. Progress in Biomaterials, 2019, 8, 155-168.	1.8	32
18	Development of polyelectrolyte complexes of chitosan and phosphotungstic acid as pervaporation membranes for dehydration of isopropanol. European Polymer Journal, 2009, 45, 3116-3126.	2.6	31

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19	Synthesis and characterization of thermally stable second-order nonlinear optical side-chain polyimides containing thiazole and benzothiazole pushâ€“pull chromophores. Optical Materials, 2009, 31, 817-825.	1.7	30
20	Modification of tetraethylorthosilicate crosslinked poly(vinyl alcohol) membrane using chitosan and its application to the pervaporation separation of water-isopropanol mixtures. Journal of Applied Polymer Science, 2006, 99, 1380-1389.	1.3	29
21	Synthesis and characterization of hybrid membranes using chitosan and 2-(3,4-epoxycyclohexyl) ethyltrimethoxysilane for pervaporation dehydration of isopropanol. Journal of Membrane Science, 2013, 441, 83-92.	4.1	27
22	Synergistic delivery of 5-fluorouracil and curcumin using human serum albumin-coated iron oxide nanoparticles by folic acid targeting. Progress in Biomaterials, 2018, 7, 297-306.	1.8	27
23	Scalable fabrication of a flexible interdigital micro-supercapacitor device by in-situ polymerization of pyrrole into hybrid PVA-TEOS membrane. Electrochimica Acta, 2018, 282, 469-479.	2.6	27
24	Preparation of zeolite-incorporated poly(dimethyl siloxane) membranes for the pervaporation separation of isopropyl alcohol/water mixtures. Journal of Applied Polymer Science, 2005, 96, 1377-1387.	1.3	25
25	Enhancement of pervaporation performance of composite membranes through in situ generation of silver nanoparticles in poly(vinyl alcohol) matrix. Journal of Applied Polymer Science, 2015, 132, .	1.3	25
26	Solving the trade-off phenomenon in separation of waterâ€“dioxan mixtures by pervaporation through crosslinked sodiumâ€“alginate membranes with polystyrene sulfonic acid-co-maleic acid. Chemical Engineering Science, 2013, 94, 84-92.	1.9	24
27	Development of novel membranes for PV separation of waterâ€“isopropanol mixtures using poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Ov	4.1	24
28	Development of multilayered nanofibrous scaffolds with PCL and PVA:NaAlg using electrospinning technique for bone tissue regeneration. Materialia, 2020, 12, 100826.	1.3	24
29	Development of nanofibrous scaffolds by varying the TiO2 content in crosslinked PVA for bone tissue engineering. New Journal of Chemistry, 2020, 44, 2111-2121.	1.4	24
30	In Vitro Release Study of Verapamil Hydrochloride Through Sodium Alginate Interpenetrating Monolithic Membranes. Drug Development and Industrial Pharmacy, 2001, 27, 1107-1114.	0.9	22
31	Development of novel 3D scaffolds using BioExtruder by varying the content of hydroxyapatite and silica in PCL matrix for bone tissue engineering. Journal of Polymer Research, 2020, 27, 1.	1.2	21
32	Enhancement of fuel cell performance of sulfonated poly(arylene ether ketone) membrane using different crosslinkers. Journal of Membrane Science, 2018, 566, 383-395.	4.1	20
33	Click chemistry based regioselective oneâ€pot synthesis of coumarinâ€3â€ylâ€methylâ€1,2,3â€triazolylâ€1,2,4â€triazolâ€3(4H)â€ones as newer potent antitubercular agents. Archiv Der Pharmazie, 2019, 352, e1900013.	2.2	20
34	Density, Viscosity, Refractive Index, and Speed of Sound of Ternary Systems:â€‰ Polystyrene in 1,4-Dioxane + Tetrahydrofuran Mixtures at (298.15, 303.15, and 308.15) K. Journal of Chemical & Engineering Data, 2000, 45, 920-925.	1.0	19
35	Synthesis and nonlinear optical properties of polyurethanes containing nitro-substituted 1,3,4-oxadiazole chromophores. Synthetic Metals, 2009, 159, 1812-1819.	2.1	17
36	Synthesis and characterization of polyelectrolyte complex membranes for the pervaporation separation of waterâ€“isopropanol mixtures using sodium alginate and gelatin. Polymer Bulletin, 2018, 75, 851-875.	1.7	17

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37	Development of robust proton exchange membranes for fuel cell applications by the incorporation of sulfonated Î²-cyclodextrin into crosslinked sulfonated poly(vinyl alcohol). Electrochimica Acta, 2018, 286, 350-364.	2.6	17
38	Preparation and pervaporation performance of chitosan-poly(methacrylic acid) polyelectrolyte complex membranes for dehydration of 1,4-dioxane. Polymer Engineering and Science, 2016, 56, 715-724.	1.5	15
39	Development of supercapacitor systems based on binary and ternary nanocomposites using chitosan, graphene and polyaniline. Chemical Data Collections, 2018, 17-18, 459-471.	1.1	15
40	Molecular migration of aromatic liquids into a commercial fluoroelastomeric membrane at 30, 40, and 50Â°C. Journal of Applied Polymer Science, 2003, 90, 3100-3106.	1.3	14
41	Microwave facilitated one-pot three component synthesis of coumarin-benzoxazole clubbed 1,2,3-triazoles: Antimicrobial evaluation, molecular docking and in silico ADME studies. Synthetic Communications, 2021, 51, 3460-3472.	1.1	14
42	Preparation and characterization of B2SA grafted hybrid poly(vinyl alcohol) membranes for pervaporation separation of water-isopropanol mixtures. Chemical Data Collections, 2019, 22, 100245.	1.1	13
43	Development of dual drug loaded PLGA based mesoporous silica nanoparticles and their conjugation with Angiopep-2 to treat glioma. Journal of Drug Delivery Science and Technology, 2019, 53, 101157.	1.4	12
44	Crosslinked Nanocomposite Sodium Alginate-Based Membranes with Titanium Dioxide for the Dehydration of Isopropanol by Pervaporation. Molecules, 2020, 25, 1298.	1.7	12
45	Studies on nonlinear optical polyurethanes containing heterocyclic chromophores. Journal of Molecular Structure, 2011, 987, 158-165.	1.8	11
46	Preparation of transferrin-conjugated poly-Îµ-caprolactone nanoparticles and delivery of paclitaxel to treat glioblastoma across bloodâ€“brain barrier. Emergent Materials, 2019, 2, 463-474.	3.2	11
47	Development of zeolite-A incorporated PVA/CS nanofibrous composite membranes using the electrospinning technique for pervaporation dehydration of water/tert-butanol. New Journal of Chemistry, 2021, 45, 3981-3996.	1.4	11
48	Synthesis of chromophores and polyimides with a green chemistry approach for secondâ€order nonlinear optical applications. Polymers for Advanced Technologies, 2018, 29, 2091-2102.	1.6	10
49	Benzils: A Review on their Synthesis. Asian Journal of Organic Chemistry, 2022, 11, .	1.3	10
50	Using an additive to control the electrospinning of fibres of poly(Îµâ€caprolactone). Polymer International, 2010, 59, 827-835.	1.6	9
51	Synthesis and characterization of nonlinear optical side-chain polyimides containing the thiadiazole chromophores. Journal of Applied Polymer Science, 2012, 125, 1049-1058.	1.3	9
52	A new analytical method to calculate intrinsic viscosity and viscosity constants of polymer-solvent systems. Journal of Applied Polymer Science, 2002, 83, 283-290.	1.3	8
53	Pyridine enhances the efficiency of 1D-CdS nanowire solar cells fabricated using novel organic dyes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 640, 128500.	2.3	8
54	Development of novel crosslinkable polymers for second-order nonlinear optical devices. Synthetic Metals, 2011, 161, 1787-1799.	2.1	7

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55	Studies on molecular transport ofn-alkanes through poly(tetrafluoroethylene-co-propylene) elastomeric membrane. Journal of Applied Polymer Science, 2006, 101, 2228-2235.	1.3	6
56	Development of a novel SBA-15 templated mesoporous reduced graphitic oxide composite for high performance supercapacitors and fabrication of its device by an electrospinning technique. New Journal of Chemistry, 2019, 43, 16017-16032.	1.4	6
57	An expeditious synthesis of 1,2,4-triazolinones appended to 1,3-thiazoles using zinc triflate as catalyst. Main Group Chemistry, 2011, 10, 165-175.	0.4	4
58	Fluorinated Poly(arylene ether-1,3,4-oxadiazole)s Containing a 4-Bromophenyl Pendant Group and Its Phosphonated Derivatives: Synthesis, Spectroscopic Characterization, Thermal and Dielectric Studies. Polymer-Plastics Technology and Engineering, 2014, 53, 97-105.	1.9	4
59	Synthesis of thermally stable new polyurethanes containing nitro-substituted 1,3,4-oxadiazole chromophores for second order nonlinear optical applications. Optik, 2015, 126, 4991-5000.	1.4	4
60	Synthesis, structural characterization and computational study of NLO-responsive chromophores and second-order coefficients of thermally crosslinked polymers. New Journal of Chemistry, 2019, 43, 15723-15735.	1.4	4
61	Modification of highly brittle polystyrene sulfonic acidâ€coâ€maleic acid crosslinked sodium alginate membrane into flexible membranes by the incorporation of dibutyl phthalate as a plasticizer for pervaporation separation. Journal of Applied Polymer Science, 2020, 137, 49431.	1.3	4
62	Nonlinear Optical Responsive Molecular Switches. , 0, , .		4
63	Synthesis of crossâ€linked composite membranes by functionalization of singleâ€walled carbon nanotubes with 1,4â€butane sultone and sulfanilic acid for fuel cell. Journal of Applied Polymer Science, 0, , 52388.	1.3	4
64	Pervaporation dehydration of isopropyl alcohol with NaY zeolite incorporated hybrid membranes. Journal of Applied Polymer Science, 2008, 109, 2043-2053.	1.3	3
65	Development of mesoporous carbon incorporated hybrid membranes for separation of azeotropic mixtures by pervaporation. Polymer Engineering and Science, 2018, 58, 405-415.	1.5	3
66	Effects of different plasticizers on highly crosslinked NaAlg/PSSAMA membranes for pervaporative dehydration of tert-butanol. New Journal of Chemistry, 2020, 44, 4452-4466.	1.4	3
67	Fabrication and Evaluation of Flexible Microâ€Supercapacitor from MWCNTsâ€Ag Nanohybridâ€Sulfonated PANI Nanocomposite Embedded PVAâ€TEOS Membrane. ChemistrySelect, 2021, 6, 3126-3138.	0.7	3
68	Total Reflection X-ray Fluorescence Analysis of Plasma Elements in Autistic Children from India. Biological Trace Element Research, 2023, 201, 644-654.	1.9	3
69	Enhancement of nonlinear optical and thermal properties of polyurethanes by modifying the chromophores with fused heterocyclic and pyrimidine rings. Polymer Engineering and Science, 2019, 59, 500-509.	1.5	2
70	Novel pyrazole derivativesviaring transformations: Anti-inflammatory and antifungal activity studies. Synthetic Communications, 2021, 51, 3125-3140.	1.1	2
71	Functional Aromatic Poly(1,3,4-Oxadiazole-Ether)s with Benzimidazole Pendants: Synthesis, Thermal and Dielectric Studies. International Scholarly Research Notices, 2014, 2014, 1-8.	0.9	1
72	Synthesis, characterization and dielectric properties of sulfonated poly(1,3,4-oxadiazole-ether) sulfone copolymer with functional pendant carboxylic acid groups. International Journal of Plastics Technology, 2014, 18, 192-202.	2.9	0