

Tejraj M Aminabhavi

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5083102/tejraj-m-aminabhavi-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

726
papers

35,621
citations

92
h-index

153
g-index

751
ext. papers

40,276
ext. citations

5.6
avg, IF

7.84
L-index

#	Paper	IF	Citations
726	Biodegradable polymeric nanoparticles as drug delivery devices. <i>Journal of Controlled Release</i> , 2001 , 70, 1-20	11.7	2664
725	Recent advances on chitosan-based micro- and nanoparticles in drug delivery. <i>Journal of Controlled Release</i> , 2004 , 100, 5-28	11.7	1905
724	Nano/micro technologies for delivering macromolecular therapeutics using poly(D,L-lactide-co-glycolide) and its derivatives. <i>Journal of Controlled Release</i> , 2008 , 125, 193-209	11.7	839
723	Polyacrylonitrile-based nanofibers: A state-of-the-art review. <i>Progress in Polymer Science</i> , 2012 , 37, 487-513	13.6	431
722	Graphitic carbon nitride (g-C ₃ N ₄) based metal-free photocatalysts for water splitting: A review. <i>Carbon</i> , 2019 , 149, 693-721	10.4	412
721	Density, Viscosity, Refractive Index, and Speed of Sound in Aqueous Mixtures of N,N-Dimethylformamide, Dimethyl Sulfoxide, N,N-Dimethylacetamide, Acetonitrile, Ethylene Glycol, Diethylene Glycol, 1,4-Dioxane, Tetrahydrofuran, 2-Methoxyethanol, and 2-Ethoxyethanol at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 1995 , 40, 856-861	2.8	320
720	Targeted nanoparticles for drug delivery through the blood-brain barrier for Alzheimer's disease. <i>Journal of Controlled Release</i> , 2005 , 108, 193-214	11.7	301
719	Semi-interpenetrating polymer network microspheres of gelatin and sodium carboxymethyl cellulose for controlled release of ketorolac tromethamine. <i>Carbohydrate Polymers</i> , 2006 , 65, 243-252	10.3	284
718	Stimulus-responsive "smart" hydrogels as novel drug delivery systems. <i>Drug Development and Industrial Pharmacy</i> , 2002 , 28, 957-74	3.6	273
717	Polymeric graphitic carbon nitride (g-CN)-based semiconducting nanostructured materials: Synthesis methods, properties and photocatalytic applications. <i>Journal of Environmental Management</i> , 2019 , 238, 25-40	7.9	232
716	Water transport and drug release study from cross-linked polyacrylamide grafted guar gum hydrogel microspheres for the controlled release application. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2002 , 53, 87-98	5.7	228
715	Separation of Carbon Dioxide from Natural Gas Mixtures through Polymeric Membranes: A Review. <i>Separation and Purification Reviews</i> , 2007 , 36, 113-174	7.3	221
714	Chemically modified polyacrylamide-g-guar gum-based crosslinked anionic microgels as pH-sensitive drug delivery systems: preparation and characterization. <i>Journal of Controlled Release</i> , 2001 , 75, 331-45	11.7	221
713	Diffusion and sorption of organic liquids through polymer membranes. 5. Neoprene, styrene-butadiene-rubber, ethylene-propylene-diene terpolymer, and natural rubber versus hydrocarbons (C ₈ -C ₁₆). <i>Macromolecules</i> , 1991 , 24, 2598-2605	5.5	207
712	Chitosan as a carrier for targeted delivery of small interfering RNA. <i>International Journal of Pharmaceutics</i> , 2010 , 399, 1-11	6.5	201
711	Glutaraldehyde crosslinked sodium alginate beads containing liquid pesticide for soil application. <i>Journal of Controlled Release</i> , 2000 , 63, 97-105	11.7	201
710	ZnO-based nanostructured electrodes for electrochemical sensors and biosensors in biomedical applications. <i>Biosensors and Bioelectronics</i> , 2019 , 141, 111417	11.8	199

709	Densities, viscosities, refractive indices, and speeds of sound for methyl acetoacetate + aliphatic alcohols (C1-C8). <i>Journal of Chemical & Engineering Data</i> , 1993 , 38, 31-39	2.8	191
708	Controlled release of clozapine through chitosan microparticles prepared by a novel method. <i>Journal of Controlled Release</i> , 2004 , 96, 245-59	11.7	189
707	Polymeric hydrogels for oral insulin delivery. <i>Journal of Controlled Release</i> , 2013 , 165, 129-38	11.7	187
706	Nanofiltration and reverse osmosis thin film composite membrane module for the removal of dye and salts from the simulated mixtures. <i>Desalination</i> , 2009 , 249, 12-17	10.3	187
705	Membrane-based separation of potential emerging pollutants. <i>Separation and Purification Technology</i> , 2019 , 210, 850-866	8.3	185
704	Thermodynamic interactions in mixtures of bromoform with hydrocarbons. <i>The Journal of Physical Chemistry</i> , 1991 , 95, 5299-5308		180
703	Pervaporation separation of isopropanol/water mixtures through crosslinked chitosan membranes. <i>Journal of Membrane Science</i> , 2005 , 262, 91-99	9.6	174
702	Hydrogels as controlled release devices in agriculture. <i>Designed Monomers and Polymers</i> , 2002 , 5, 39-65	3.1	168
701	Photocatalytic recovery of H ₂ from H ₂ S containing wastewater: Surface and interface control of photo-excitons in Cu ₂ S@TiO ₂ core-shell nanostructures. <i>Applied Catalysis B: Environmental</i> , 2019 , 254, 174-185	21.8	167
700	Novel chitosan-based pH-sensitive interpenetrating network microgels for the controlled release of cefadroxil. <i>Carbohydrate Polymers</i> , 2006 , 66, 333-344	10.3	165
699	Distillery wastewater treatment by the membrane-based nanofiltration and reverse osmosis processes. <i>Water Research</i> , 2006 , 40, 2349-56	12.5	164
698	Poly(vinyl alcohol) and poly(acrylic acid) sequential interpenetrating network pH-sensitive microspheres for the delivery of diclofenac sodium to the intestine. <i>Journal of Controlled Release</i> , 2004 , 96, 9-20	11.7	160
697	Crosslinked chitosan microspheres for encapsulation of diclofenac sodium: effect of crosslinking agent. <i>Journal of Microencapsulation</i> , 2002 , 19, 173-80	3.4	157
696	Novel interpenetrating polymer network microspheres of chitosan and methylcellulose for controlled release of theophylline. <i>Carbohydrate Polymers</i> , 2007 , 69, 678-687	10.3	153
695	Development and evaluation of novel biodegradable microspheres based on poly(D,L-lactide-co-glycolide) and poly(epsilon-caprolactone) for controlled delivery of doxycycline in the treatment of human periodontal pocket: in vitro and in vivo studies. <i>Journal of Controlled Release</i> , 2007 , 119, 59-68	11.7	151
694	A review on frontiers in plasmonic nano-photocatalysts for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 10453-10472	6.7	148
693	In-vitro release kinetics of cefadroxil-loaded sodium alginate interpenetrating network beads. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2001 , 51, 127-33	5.7	146
692	Nanomedicine: An effective tool in cancer therapy. <i>International Journal of Pharmaceutics</i> , 2018 , 540, 132-149	6.5	143

691	Sustainability considerations in membrane-based technologies for industrial effluents treatment. <i>Chemical Engineering Journal</i> , 2019 , 368, 474-494	14.7	143
690	Functionalized Graphene Sheets Embedded in Chitosan Nanocomposite Membranes for Ethanol and Isopropanol Dehydration via Pervaporation. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 14474-14484	3.9	142
689	Density, Viscosity, and Refractive Index of the Binary Mixtures of Cyclohexane with Hexane, Heptane, Octane, Nonane, and Decane at (298.15, 303.15, and 308.15) K. <i>Journal of Chemical & Engineering Data</i> , 1996 , 41, 521-525	2.8	141
688	Band gap tuning and surface modification of carbon dots for sustainable environmental remediation and photocatalytic hydrogen production - A review. <i>Journal of Environmental Management</i> , 2019 , 250, 109486	7.9	140
687	Textile waste, dyes/inorganic salts separation of cerium oxide-loaded loose nanofiltration polyethersulfone membranes. <i>Chemical Engineering Journal</i> , 2020 , 385, 123787	14.7	139
686	Controlled release of cephalexin through gellan gum beads: effect of formulation parameters on entrapment efficiency, size, and drug release. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2006 , 63, 249-61	5.7	138
685	POLYMERS DERIVED FROM HEXAFLUOROACETONE. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 1989 , 29, 365-429		136
684	Synthesis and characterization of semi-interpenetrating polymer network microspheres of acrylamide grafted dextran and chitosan for controlled release of acyclovir. <i>Carbohydrate Polymers</i> , 2007 , 67, 605-613	10.3	133
683	Metal-organic frameworks (MOFs)-based efficient heterogeneous photocatalysts: Synthesis, properties and its applications in photocatalytic hydrogen generation, CO ₂ reduction and photodegradation of organic dyes. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 7656-7679	6.7	132
682	Development of crosslinked poly(ether-block-amide) membrane for CO ₂ /CH ₄ separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007 , 297, 267-274	5.1	131
681	Density, Viscosity, Refractive Index, and Speed of Sound in Binary Mixtures of Acrylonitrile with Methanol, Ethanol, Propan-1-ol, Butan-1-ol, Pentan-1-ol, Hexan-1-ol, Heptan-1-ol, and Butan-2-ol. <i>Journal of Chemical & Engineering Data</i> , 1999 , 44, 216-221	2.8	131
680	Arsenic removal from drinking water using thin film composite nanofiltration membrane. <i>Desalination</i> , 2010 , 252, 75-80	10.3	130
679	Waste-to-energy nexus for circular economy and environmental protection: Recent trends in hydrogen energy. <i>Science of the Total Environment</i> , 2020 , 713, 136633	10.2	129
678	Polysaccharide-based micro/nanohydrogels for delivering macromolecular therapeutics. <i>Journal of Controlled Release</i> , 2014 , 193, 162-73	11.7	129
677	Polymeric micelles: Basic research to clinical practice. <i>International Journal of Pharmaceutics</i> , 2017 , 532, 249-268	6.5	129
676	Superior chemical stability of UiO-66 metal-organic frameworks (MOFs) for selective dye adsorption. <i>Chemical Engineering Journal</i> , 2020 , 399, 125346	14.7	128
675	Novel dense poly(vinyl alcohol)/TiO ₂ mixed matrix membranes for pervaporation separation of water/isopropanol mixtures at 30°C. <i>Journal of Membrane Science</i> , 2006 , 281, 95-102	9.6	127
674	Synthesis and characterization of polyacrylamide-grafted chitosan hydrogel microspheres for the controlled release of indomethacin. <i>Journal of Applied Polymer Science</i> , 2003 , 87, 1525-1536	2.9	126

673	Sensors based on ruthenium-doped TiO nanoparticles loaded into multi-walled carbon nanotubes for the detection of flufenamic acid and mefenamic acid. <i>Analytica Chimica Acta</i> , 2019 , 1051, 58-72	6.6	124
672	Nanostructured titanium oxide hybrids-based electrochemical biosensors for healthcare applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 178, 385-394	6	122
671	Density, Viscosity, Refractive Index, and Speed of Sound for Binary Mixtures of Anisole with 2-Chloroethanol, 1,4-Dioxane, Tetrachloroethylene, Tetrachloroethane, DMF, DMSO, and Diethyl Oxalate at (298.15, 303.15, and 308.15) K. <i>Journal of Chemical & Engineering Data</i> , 2005 , 50, 910-916	2.8	122
670	Preparation of sodium alginate-methylcellulose blend microspheres for controlled release of nifedipine. <i>Carbohydrate Polymers</i> , 2007 , 69, 241-250	10.3	120
669	Sodium montmorillonite clay loaded novel mixed matrix membranes of poly(vinyl alcohol) for pervaporation dehydration of aqueous mixtures of isopropanol and 1,4-dioxane. <i>Journal of Membrane Science</i> , 2006 , 285, 182-195	9.6	120
668	Densities, refractive indices, speeds of sound, and shear viscosities of diethylene glycol dimethyl ether with ethyl acetate, methyl benzoate, ethyl benzoate, and diethyl succinate in the temperature range from 298.15 to 318.15 K. <i>Journal of Chemical & Engineering Data</i> , 1994 , 39, 251-260	2.8	120
667	Controlled release of antihypertensive drug from the interpenetrating network poly(vinyl alcohol)-guar gum hydrogel microspheres. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2000 , 11, 27-43	3.5	118
666	Novel interpenetrating network chitosan-poly(ethylene oxide-g-acrylamide) hydrogel microspheres for the controlled release of capecitabine. <i>International Journal of Pharmaceutics</i> , 2006 , 324, 103-115	6.5	117
665	Syntheses and characterization of blend membranes of sodium alginate and poly(vinyl alcohol) for the pervaporation separation of water + isopropanol mixtures. <i>Journal of Applied Polymer Science</i> , 2002 , 86, 3642-3651	2.9	117
664	Density, Viscosity, Refractive Index, and Speed of Sound in Binary Mixtures of Ethenylbenzene with N,N-Dimethylacetamide, Tetrahydrofuran, N,N-Dimethylformamide, 1,4-Dioxane, Dimethyl Sulfoxide, Chloroform, Bromoform, and 1-Chloronaphthalene in the Temperature Interval (298.15-308.15) K. <i>Journal of Chemical & Engineering Data</i> , 1998 , 43, 497-503	2.8	116
663	Molecular dynamics simulations to investigate polymer-polymer and polymer-metal oxide interactions. <i>Polymer</i> , 2007 , 48, 409-416	3.9	116
662	Graphene-loaded sodium alginate nanocomposite membranes with enhanced isopropanol dehydration performance via a pervaporation technique. <i>RSC Advances</i> , 2013 , 3, 17120	3.7	113
661	Development of novel interpenetrating network gellan gum-poly(vinyl alcohol) hydrogel microspheres for the controlled release of carvedilol. <i>Drug Development and Industrial Pharmacy</i> , 2005 , 31, 491-503	3.6	113
660	Density, Refractive Index, Viscosity, and Speed of Sound in Binary Mixtures of Cyclohexanone with Hexane, Heptane, Octane, Nonane, Decane, Dodecane, and 2,2,4-Trimethylpentane. <i>Journal of Chemical & Engineering Data</i> , 1999 , 44, 435-440	2.8	113
659	Diffusion and sorption of organic liquids through polymer membranes. II. Neoprene, SBR, EPDM, NBR, and natural rubber versus n-alkanes. <i>Journal of Applied Polymer Science</i> , 1991 , 42, 2329-2336	2.9	113
658	Paper-based microfluidic analytical devices for colorimetric detection of toxic ions: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 93, 212-227	14.6	112
657	Different viscosity grade sodium alginate and modified sodium alginate membranes in pervaporation separation of water + acetic acid and water + isopropanol mixtures. <i>Journal of Membrane Science</i> , 2004 , 228, 199-208	9.6	111
656	Modified guar gum matrix tablet for controlled release of diltiazem hydrochloride. <i>Journal of Controlled Release</i> , 2004 , 95, 567-77	11.7	108

655	Density, Viscosity, Refractive Index, and Speed of Sound in Binary Mixtures of 2-Chloroethanol with Methyl Acetate, Ethyl Acetate, n-Propyl Acetate, and n-Butyl Acetate. <i>Journal of Chemical & Engineering Data</i> , 1999 , 44, 441-445	2.8	108
654	Evaluation of acrylamide-grafted-xanthan gum copolymer matrix tablets for oral controlled delivery of antihypertensive drugs?. <i>Carbohydrate Polymers</i> , 2007 , 69, 130-141	10.3	106
653	Electrochemical detection and degradation of textile dye Congo red at graphene oxide modified electrode. <i>Microchemical Journal</i> , 2019 , 146, 387-392	4.8	106
652	Hetero-nanostructured metal oxide-based hybrid photocatalysts for enhanced photoelectrochemical water splitting [A review]. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 18331-18347	6.7	106
651	Quinoline-n-butylcyanoacrylate-based nanoparticles for brain targeting for the diagnosis of Alzheimer's disease. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2010 , 2, 35-47	9.2	105
650	pH sensitive interpenetrating network microgels of sodium alginate-acrylic acid for the controlled release of ibuprofen. <i>Journal of Applied Polymer Science</i> , 2006 , 99, 2671-2678	2.9	105
649	Efficient removal of toxic organic dyes and photoelectrochemical properties of iron-doped zirconia nanoparticles. <i>Chemosphere</i> , 2020 , 239, 124766	8.4	102
648	Interpenetrating polymer network blend microspheres of chitosan and hydroxyethyl cellulose for controlled release of isoniazid. <i>International Journal of Biological Macromolecules</i> , 2010 , 47, 171-9	7.9	99
647	Molecular modeling simulations to predict compatibility of poly(vinyl alcohol) and chitosan blends: a comparison with experiments. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 2431-9	3.4	99
646	Pervaporation separation of water+isopropanol mixtures using novel nanocomposite membranes of poly(vinyl alcohol) and polyaniline. <i>Journal of Membrane Science</i> , 2005 , 260, 142-155	9.6	99
645	Novel pH-Sensitive Hydrogels Prepared from the Blends of Poly(vinyl alcohol) with Acrylic Acid-graft-Guar Gum Matrixes for Isoniazid Delivery. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 7323-7329	3.9	98
644	A Review on Biodegradable Plastics. <i>Polymer-Plastics Technology and Engineering</i> , 1990 , 29, 235-262		98
643	Potential application of an electrodialysis pilot plant containing ion-exchange membranes in chromium removal. <i>Desalination</i> , 2007 , 217, 181-190	10.3	96
642	Pervaporation Separation of Organic-Aqueous and Organic-Organic Binary Mixtures. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 1994 , 34, 139-204		94
641	Diffusion and sorption of organic liquids through polymer membranes: 10. Polyurethane, nitrile-butadiene rubber and epichlorohydrin versus aliphatic alcohols (C1-C5). <i>Polymer</i> , 1993 , 34, 1006-1018	3.9	94
640	Density, Refractive Index, Viscosity, and Speed of Sound in Binary Mixtures of Ethenylbenzene with Hexane, Heptane, Octane, Nonane, Decane, and Dodecane. <i>Journal of Chemical & Engineering Data</i> , 1997 , 42, 641-646	2.8	93
639	Mixed matrix membranes of sodium alginate and poly(vinyl alcohol) for pervaporation dehydration of isopropanol at different temperatures. <i>Polymer</i> , 2007 , 48, 5417-5430	3.9	93
638	Densities, Viscosities, Refractive Indices, and Speeds of Sound of the Binary Mixtures of Bis(2-methoxyethyl) Ether with Nonane, Decane, Dodecane, Tetradecane, and Hexadecane at 298.15, 308.15, and 318.15 K. <i>Journal of Chemical & Engineering Data</i> , 1994 , 39, 529-534	2.8	93

- 637 Interactions of organic halides with a polyurethane elastomer. *Journal of Membrane Science*, **1990**, 50, 225-247 9.6 93
- 636 Mixed matrix membranes of H-ZSM5-loaded poly(vinyl alcohol) used in pervaporation dehydration of alcohols: Influence of silica/alumina ratio. *Polymer Engineering and Science*, **2014**, 54, 1774-1782 2.3 92
- 635 Aluminum-rich zeolite beta incorporated sodium alginate mixed matrix membranes for pervaporation dehydration and esterification of ethanol and acetic acid. *Journal of Membrane Science*, **2008**, 318, 233-246 9.6 92
- 634 Molecular modeling simulations and thermodynamic approaches to investigate compatibility/incompatibility of poly(L-lactide) and poly(vinyl alcohol) blends. *Polymer*, **2006**, 47, 8061-8079 3.9 92
- 633 Synthesis, characterization and low frequency AC conduction of polyaniline/niobium pentoxide composites. *Synthetic Metals*, **2006**, 156, 1139-1147 3.6 92
- 632 Pervaporation separation of water/isopropanol mixtures using ZSM-5 zeolite incorporated poly(vinyl alcohol) membranes. *Journal of Applied Polymer Science*, **2003**, 90, 2441-2448 2.9 92
- 631 Density, Refractive Index, Viscosity, and Speed of Sound in Binary Mixtures of Cyclohexanone with Benzene, Methylbenzene, 1,4-Dimethylbenzene, 1,3,5-Trimethylbenzene, and Methoxybenzene in the Temperature Interval (298.15 to 308.15) K. *Journal of Chemical & Engineering Data*, **1999**, 44, 446-450 2.8 92
- 630 Densities, Shear Viscosities, Refractive Indices, and Speeds of Sound of Bis(2-methoxyethyl) Ether with Hexane, Heptane, Octane, and 2,2,4-Trimethylpentane in the Temperature Interval 298.15-318.15 K. *Journal of Chemical & Engineering Data*, **1994**, 39, 522-528 2.8 92
- 629 Molecular modeling on the binary blend compatibility of poly(vinyl alcohol) and poly(methyl methacrylate): an atomistic simulation and thermodynamic approach. *Journal of Physical Chemistry B*, **2005**, 109, 15611-20 3.4 91
- 628 Copper-doped ZrO nanoparticles as high-performance catalysts for efficient removal of toxic organic pollutants and stable solar water oxidation. *Journal of Environmental Management*, **2020**, 260, 110088 7.9 87
- 627 Hydrogen peroxide treated graphene as an effective nanosheet filler for separation application. *RSC Advances*, **2015**, 5, 100984-100995 3.7 87
- 626 Blend membranes of chitosan and poly(vinyl alcohol) in pervaporation dehydration of isopropanol and tetrahydrofuran. *Journal of Applied Polymer Science*, **2007**, 103, 1918-1926 2.9 87
- 625 Formulation and in-vitro evaluation of novel starch-based tableted microspheres for controlled release of ampicillin. *Carbohydrate Polymers*, **2008**, 71, 42-53 10.3 87
- 624 Controlled release of diclofenac sodium from sodium alginate beads crosslinked with glutaraldehyde. *Pharmaceutica Acta Helvetiae*, **1999**, 74, 29-36 87
- 623 Highly efficient solar light-driven photocatalytic hydrogen production over Cu/FCNTs-titania quantum dots-based heterostructures. *Journal of Environmental Management*, **2020**, 254, 109747 7.9 86
- 622 Fabrication of ZnO nanoparticles modified sensor for electrochemical oxidation of methdilazine. *Applied Surface Science*, **2019**, 496, 143656 6.7 85
- 621 Characterization of surface-modified montmorillonite nanocomposites. *Ceramics International*, **2012**, 38, 929-934 5.1 85
- 620 Cyclodextrin-based siRNA delivery nanocarriers: a state-of-the-art review. *Expert Opinion on Drug Delivery*, **2011**, 8, 1455-68 8 83

619	Excess properties of the binary mixtures of methylcyclohexane+alkanes (C6 to C12) at T=298.15K to T=308.15K. <i>Journal of Chemical Thermodynamics</i> , 2006 , 38, 75-83	2.9	83
618	Densities, Viscosities, and Refractive Indices of Bis(2-methoxyethyl) Ether + Cyclohexane or + 1,2,3,4-Tetrahydronaphthalene and of 2-Ethoxyethanol + Propan-1-ol, + Propan-2-ol, or + Butan-1-ol. <i>Journal of Chemical & Engineering Data</i> , 1995 , 40, 462-467	2.8	83
617	Polychlorinated biphenyls (PCBs) in the environment: Recent updates on sampling, pretreatment, cleanup technologies and their analysis. <i>Chemical Engineering Journal</i> , 2019 , 358, 1186-1207	14.7	83
616	Biofuels, biodiesel and biohydrogen production using bioprocesses. A review. <i>Environmental Chemistry Letters</i> , 2020 , 18, 1049-1072	13.3	82
615	Mixed matrix blend membranes of poly(vinyl alcohol)/poly(vinyl pyrrolidone) loaded with phosphomolybdic acid used in pervaporation dehydration of ethanol. <i>Journal of Membrane Science</i> , 2010 , 354, 150-161	9.6	81
614	Pervaporation Separation Using Sodium Alginate and Its Modified Membranes A Review View all notes. <i>Separation and Purification Reviews</i> , 2007 , 36, 203-229	7.3	81
613	Targeted delivery of small interfering RNA to colon cancer cells using chitosan and PEGylated chitosan nanoparticles. <i>Carbohydrate Polymers</i> , 2016 , 147, 323-332	10.3	81
612	Sustainable hydrogen production for the greener environment by quantum dots-based efficient photocatalysts: A review. <i>Journal of Environmental Management</i> , 2019 , 248, 109246	7.9	80
611	Matrimid polyimide membranes for the separation of carbon dioxide from methane. <i>Journal of Applied Polymer Science</i> , 2007 , 106, 1585-1594	2.9	80
610	Density, Viscosity, Refractive Index, and Speed of Sound in the Binary Mixtures of Ethyl Chloroacetate + Cyclohexanone, + Chlorobenzene, + Bromobenzene, or + Benzyl Alcohol at (298.15, 303.15, and 308.15) K. <i>Journal of Chemical & Engineering Data</i> , 2003 , 48, 628-631	2.8	80
609	Density, Viscosity, Refractive Index, and Speed of Sound in Binary Mixtures of 2-Ethoxyethanol with n-Alkanes (C6 to C12), 2,2,4-Trimethylpentane, and Cyclohexane in the Temperature Interval 298.15-313.15 K. <i>Journal of Chemical & Engineering Data</i> , 1995 , 40, 632-641	2.8	79
608	Thermodynamic interactions in binary mixtures of dimethyl sulfoxide with benzene, toluene, 1,3-dimethylbenzene, 1,3,5-trimethylbenzene, and methoxybenzene from 298.15 to 308.15 K. <i>Journal of Chemical & Engineering Data</i> , 1992 , 37, 298-303	2.8	79
607	Novel composite blend microbeads of sodium alginate coated with chitosan for controlled release of amoxicillin. <i>International Journal of Biological Macromolecules</i> , 2012 , 51, 45-55	7.9	77
606	Pyrrole: Chemical Synthesis, Microwave Assisted Synthesis, Reactions and Applications: A Review. <i>Current Organic Chemistry</i> , 2013 , 17, 2279-2304	1.7	77
605	Novel crosslinked chitosan/poly(vinylpyrrolidone) blend membranes for dehydrating tetrahydrofuran by the pervaporation technique. <i>Journal of Membrane Science</i> , 2006 , 280, 45-53	9.6	76
604	Poly(vinyl alcohol)-iron oxide nanocomposite membranes for pervaporation dehydration of isopropanol, 1,4-dioxane and tetrahydrofuran. <i>Journal of Membrane Science</i> , 2006 , 283, 65-73	9.6	75
603	Diffusion and sorption of organic liquids through polymer membranes. I. Polyurethane versus n-alkanes. <i>Journal of Applied Polymer Science</i> , 1991 , 42, 2321-2328	2.9	75
602	Synthesis of graft copolymeric membranes of poly(vinyl alcohol) and polyacrylamide for the pervaporation separation of water/acetic acid mixtures. <i>Journal of Applied Polymer Science</i> , 2002 , 83, 244-258	2.9	74

601	Density, Viscosity, Refractive Index, and Speed of Sound in the Binary Mixtures of Tri-n-butylamine + Triethylamine, + Tetrahydrofuran, + Tetradecane, + Tetrachloroethylene, + Pyridine, or + Trichloroethylene at (298.15, 303.15, and 308.15) K. <i>Journal of Chemical & Engineering Data</i> , 2003 , 48, 1483-1488	2.8	74
600	Concentration-dependent aggregation patterns of conjugated bile salts in aqueous sodium chloride solutions. <i>Colloid and Polymer Science</i> , 1983 , 261, 781-785	2.4	74
599	Carbon Cloth-based Hybrid Materials as Flexible Electrochemical Supercapacitors. <i>ChemElectroChem</i> , 2019 , 6, 5771-5786	4.3	73
598	Novel high dielectric constant nanocomposites of polyaniline dispersed with Fe ₂ O ₃ nanoparticles. <i>Journal of Applied Polymer Science</i> , 2005 , 97, 1868-1874	2.9	73
597	Mesoporous molecular sieve (MCM-41)-filled sodium alginate hybrid nanocomposite membranes for pervaporation separation of water/isopropanol mixtures. <i>Separation and Purification Technology</i> , 2006 , 49, 56-63	8.3	72
596	Density, Viscosity, Refractive Index, and Speed of Sound in Binary Mixtures of Dimethyl Carbonate with Methanol, Chloroform, Carbon Tetrachloride, Cyclohexane, and Dichloromethane in the Temperature Interval (298.15-308.15) K. <i>Journal of Chemical & Engineering Data</i> , 1998 , 43, 1096-1101	2.8	72
595	para-Toluene sulfonic acid treated clay loaded sodium alginate membranes for enhanced pervaporative dehydration of isopropanol. <i>Applied Clay Science</i> , 2014 , 101, 419-429	5.2	71
594	Development of hollow microspheres as floating controlled-release systems for cardiovascular drugs: preparation and release characteristics. <i>Drug Development and Industrial Pharmacy</i> , 2001 , 27, 507-515	3.6	71
593	Measurement of diffusivity of organic liquids through polymer membranes: A simple and inexpensive laboratory experiment. <i>Journal of Chemical Education</i> , 1990 , 67, 82	2.4	71
592	Prediction of physical properties of nanofiltration membranes using experiment and theoretical models?. <i>Journal of Membrane Science</i> , 2008 , 310, 321-336	9.6	70
591	Density, Viscosity, Refractive Index, and Speed of Sound in the Binary Mixtures of 1,4-Dioxane + Ethanediol, + Hexane, + Tributylamine, or + Triethylamine at (298.15, 303.15, and 308.15) K. <i>Journal of Chemical & Engineering Data</i> , 2003 , 48, 1152-1156	2.8	70
590	Density, Viscosity, Refractive Index, and Speed of Sound in Binary Mixtures of 2-Chloroethanol with Alkanols (C ₁ -C ₆) at 298.15, 303.15, and 308.15 K. <i>Journal of Chemical & Engineering Data</i> , 1998 , 43, 509-513	2.8	70
589	ZnO nanosheets-decorated BiWO ₄ nanolayers as efficient photocatalysts for the removal of toxic environmental pollutants and photoelectrochemical solar water oxidation. <i>Journal of Environmental Management</i> , 2020 , 265, 110504	7.9	70
588	Electrochemical behavior of flufenamic acid at amberlite XAD-4 resin and silver-doped titanium dioxide/ amberlite XAD-4 resin modified carbon electrodes. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 177, 407-415	6	69
587	A Review on Controlled Release of Nitrogen Fertilizers Through Polymeric Membrane Devices. <i>Polymer-Plastics Technology and Engineering</i> , 1999 , 38, 675-711		69
586	Novel Interpenetrating Polymer Network Hydrogel Microspheres of Chitosan and Poly(acrylamide)-grafted-Guar Gum for Controlled Release of Ciprofloxacin. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 13280-13287	3.9	68
585	Temperature sensitive semi-IPN microspheres from sodium alginate and N-isopropylacrylamide for controlled release of 5-fluorouracil. <i>Journal of Applied Polymer Science</i> , 2008 , 107, 2820-2829	2.9	68
584	Thermodynamic Properties of Water + Tetrahydrofuran and Water + 1,4-Dioxane Mixtures at (303.15, 313.15, and 323.15) K. <i>Journal of Chemical & Engineering Data</i> , 2004 , 49, 468-474	2.8	68

583	pH-sensitive acrylic-based copolymeric hydrogels for the controlled release of a pesticide and a micronutrient. <i>Journal of Applied Polymer Science</i> , 2003 , 87, 394-403	2.9	68
582	Density, Viscosity, Refractive Index, and Speed of Sound for the Binary Mixtures of Ethyl Chloroacetate with n-Alkanes (C6 to C12) at (298.15, 303.15, and 308.15) K. <i>Journal of Chemical & Engineering Data</i> , 2001 , 46, 891-896	2.8	68
581	2D/2d heterojunction of MoS ₂ /g-CN nanoflowers for enhanced visible-light-driven photocatalytic and electrochemical degradation of organic pollutants. <i>Journal of Environmental Management</i> , 2020 , 274, 111208	7.9	68
580	Nature engineered diatom biosilica as drug delivery systems. <i>Journal of Controlled Release</i> , 2018 , 281, 70-83	11.7	68
579	Electro-Catalytic Behavior of Mg-Doped ZnO Nano-Flakes for Oxidation of Anti-Inflammatory Drug. <i>Journal of the Electrochemical Society</i> , 2019 , 166, B3072-B3078	3.9	67
578	Novel sodium alginate/Na+MMT hybrid composite membranes for pervaporation dehydration of isopropanol, 1,4-dioxane and tetrahydrofuran. <i>Separation and Purification Technology</i> , 2006 , 51, 85-94	8.3	67
577	A Review on Extraction and Identification of Crude Oil and Related Products Using Supercritical Fluid Technology. <i>Energy & Fuels</i> , 2000 , 14, 464-475	4.1	67
576	Preferential Adsorption onto Polystyrene in Mixed Solvent Systems. <i>Macromolecules</i> , 1979 , 12, 607-613	5.5	67
575	Some Solution Properties of Polyacrylamide. <i>Macromolecules</i> , 1980 , 13, 871-876	5.5	67
574	Electro-sensing base for herbicide acifluorfen at graphitic carbon nitride modified carbon electrode in Water and soil sample analysis. <i>Microchemical Journal</i> , 2019 , 149, 103976	4.8	66
573	Development of polysaccharide-based colon targeted drug delivery systems for the treatment of amoebiasis. <i>Drug Development and Industrial Pharmacy</i> , 2007 , 33, 255-64	3.6	66
572	Novel hydrogel microspheres of chitosan and pluronic F-127 for controlled release of 5-fluorouracil. <i>Journal of Microencapsulation</i> , 2007 , 24, 274-88	3.4	66
571	Density, Viscosity, Refractive Index, and Speed of Sound for Binary Mixtures of 1,4-Dioxane with Different Organic Liquids at (298.15, 303.15, and 308.15) K. <i>Journal of Chemical & Engineering Data</i> , 2005 , 50, 917-923	2.8	66
570	A Novel Electrochemical Sensor for Detection of Molinate Using ZnO Nanoparticles Loaded Carbon Electrode. <i>Electroanalysis</i> , 2019 , 31, 1040-1049	3	66
569	Poly(N-vinylcaprolactam-co-methacrylic acid) hydrogel microparticles for oral insulin delivery. <i>Journal of Microencapsulation</i> , 2011 , 28, 384-94	3.4	65
568	Pervaporation dehydration of isopropanol using blend membranes of chitosan and hydroxypropyl cellulose. <i>Journal of Membrane Science</i> , 2007 , 304, 102-111	9.6	65
567	Pervaporation separation of water-isopropyl alcohol mixtures with blend membranes of sodium alginate and poly(acrylamide)-grafted guar gum. <i>Journal of Applied Polymer Science</i> , 2002 , 85, 2014-2024	2.9	65
566	Density, Viscosity, and Speed of Sound in Binary Mixtures of 1-Chloronaphthalene with Methanol, Ethanol, Propan-1-ol, Butan-1-ol, Pentan-1-ol, and Hexan-1-ol in the Temperature Range (298.15 to 308.15) K. <i>Journal of Chemical & Engineering Data</i> , 1998 , 43, 504-508	2.8	65

565	Molecular transport characteristics of Santoprene thermoplastic rubber in the presence of aliphatic alkanes over the temperature interval of 25 to 70°C. <i>Polymer</i> , 1995 , 36, 1023-1033	3.9	65
564	Electrode materials for lithium-ion batteries. <i>Materials Science for Energy Technologies</i> , 2018 , 1, 182-187	5.2	64
563	Blend Microspheres of Poly(3-hydroxybutyrate) and Cellulose Acetate Phthalate for Colon Delivery of 5-Fluorouracil. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 10414-10423	3.9	64
562	Ethylenediamine-functionalized Zr-based MOF for efficient removal of heavy metal ions from water. <i>Chemosphere</i> , 2021 , 264, 128466	8.4	64
561	Nanostructured silver doped TiO ₂ /CNTs hybrid as an efficient electrochemical sensor for detection of anti-inflammatory drug, cetirizine. <i>Microchemical Journal</i> , 2019 , 150, 104124	4.8	63
560	Semi-Interpenetrating Polymer Network Hydrogel Blend Microspheres of Gelatin and Hydroxyethyl Cellulose for Controlled Release of Theophylline. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 7833-7840	3.9	63
559	Mixed matrix membranes of poly(vinyl alcohol) loaded with phosphomolybdic heteropolyacid for the pervaporation separation of water/isopropanol mixtures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007 , 301, 55-62	5.1	63
558	Thermodynamic Interactions in Binary Mixtures of Ethenylbenzene with Methanol, Ethanol, Butan-1-ol, Pentan-1-ol, and Hexan-1-ol in the Temperature Range 298.15B08.15 K. <i>Journal of Chemical & Engineering Data</i> , 1999 , 44, 1291-1297	2.8	63
557	Membranes for dehydration of alcohols via pervaporation. <i>Journal of Environmental Management</i> , 2019 , 242, 415-429	7.9	62
556	pH-Sensitive oral insulin delivery systems using Eudragit microspheres. <i>Drug Development and Industrial Pharmacy</i> , 2011 , 37, 977-85	3.6	62
555	Gas permeation properties of polyamide membrane prepared by interfacial polymerization. <i>Journal of Materials Science</i> , 2007 , 42, 9392-9401	4.3	62
554	Sustainable environmental management and related biofuel technologies. <i>Journal of Environmental Management</i> , 2020 , 273, 111096	7.9	62
553	Graphene coated with alumina and its utilization as a thermal conductivity enhancer for alumina sphere/thermoplastic polyurethane composite. <i>Materials Chemistry and Physics</i> , 2015 , 153, 291-300	4.4	61
552	Preparation and characterization of novel polyurethanes containing 4,4'-(oxy-1,4-diphenyl bis(nitromethylidene))diphenol schiff base diol. <i>Polymer Engineering and Science</i> , 2014 , 54, 24-32	2.3	61
551	Colon Targeting of 5-Fluorouracil Using Polyethylene Glycol Cross-linked Chitosan Microspheres Enteric Coated with Cellulose Acetate Phthalate. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 11797-11807	3.9	61
550	Density, Viscosity, Refractive Index, and Speed of Sound in the Binary Mixtures of Ethyl Chloroacetate with Aromatic Liquids at 298.15, 303.15, and 308.15 K. <i>Journal of Chemical & Engineering Data</i> , 2002 , 47, 964-969	2.8	61
549	Pervaporation Separation of Water/Ethanol Mixtures Using Organic/Inorganic Nanocomposite Membranes. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 14731-14744	3.8	60
548	Encapsulation efficiency and controlled release characteristics of crosslinked polyacrylamide particles. <i>International Journal of Pharmaceutics</i> , 2006 , 320, 131-6	6.5	60

547	Pervaporation separation of water+1,4-dioxane and water+tetrahydrofuran mixtures using sodium alginate and its blend membranes with hydroxyethylcelluloseA comparative study. <i>Journal of Membrane Science</i> , 2005 , 260, 131-141	9.6	60
546	Highly water selective silicotungstic acid (H ₄ SiW ₁₂ O ₄₀) incorporated novel sodium alginate hybrid composite membranes for pervaporation dehydration of acetic acid. <i>Separation and Purification Technology</i> , 2007 , 54, 178-186	8.3	59
545	Poly(vinyl alcohol)/poly(methyl methacrylate) blend membranes for pervaporation separation of water+isopropanol and water+1,4-dioxane mixtures. <i>Journal of Membrane Science</i> , 2006 , 280, 594-602	9.6	59
544	Pervaporation separation of water/dimethylformamide mixtures using poly(vinyl alcohol)-g-polyacrylamide copolymeric membranes. <i>Journal of Applied Polymer Science</i> , 2002 , 83, 273-282	2.9	59
543	Density, Viscosity, Refractive Index, and Speed of Sound in the Binary Mixtures of 1,4-Dioxane + Ethyl Acetoacetate, + Diethyl Oxalate, + Diethyl Phthalate, or + Dioctyl Phthalate at 298.15, 303.15, and 308.15 K. <i>Journal of Chemical & Engineering Data</i> , 2003 , 48, 1489-1494	2.8	58
542	Densities and viscosities of binary liquid mixtures of nitrobenzene with cyclohexane and N,N-dimethylformamide. <i>Journal of Chemical & Engineering Data</i> , 1990 , 35, 185-187	2.8	58
541	Developments in polymeric devices for oral insulin delivery. <i>Expert Opinion on Drug Delivery</i> , 2008 , 5, 403-15	8	57
540	Polyaniline Membranes for Separation and Purification of Gases, Liquids, and Electrolyte Solutions. <i>Separation and Purification Reviews</i> , 2006 , 35, 249-283	7.3	57
539	Development of 5-fluorouracil loaded poly(acrylamide-co-methylmethacrylate) novel core-shell microspheres: in vitro release studies. <i>International Journal of Pharmaceutics</i> , 2006 , 325, 55-62	6.5	57
538	Sorption, diffusion, and pervaporation separation of water-acetic acid mixtures through the blend membranes of sodium alginate and guar gum-grafted-polyacrylamide. <i>Journal of Applied Polymer Science</i> , 2002 , 83, 259-272	2.9	57
537	Synthesis and characterization of modified chitosan microspheres: Effect of the grafting ratio on the controlled release of nifedipine through microspheres. <i>Journal of Applied Polymer Science</i> , 2003 , 89, 2940-2949	2.9	57
536	Density, Refractive Index, Viscosity, and Speed of Sound in Binary Mixtures of 2-Ethoxyethanol with Dioxane, Acetonitrile, and Tetrahydrofuran at (298.15, 303.15, and 308.15) K. <i>Journal of Chemical & Engineering Data</i> , 1996 , 41, 1307-1310	2.8	57
535	Stimuli-responsive peptide-based biomaterials as drug delivery systems. <i>Chemical Engineering Journal</i> , 2018 , 353, 559-583	14.7	56
534	Microporous alumino-phosphate (AlPO ₄ -5) molecular sieve-loaded novel sodium alginate composite membranes for pervaporation dehydration of aqueous-organic mixtures near their azeotropic compositions?. <i>Journal of Membrane Science</i> , 2006 , 282, 473-483	9.6	56
533	Thermodynamic interactions in binary mixtures of anisole with ethanol, propan-1-ol, propan-2-ol, butan-1-ol, pentan-1-ol, and 3-methylbutan-1-ol at T = (298.15, 303.15, and 308.15) K. <i>Journal of Chemical Thermodynamics</i> , 2006 , 38, 1620-1628	2.9	56
532	Density, Viscosity, Refractive Index, and Speed of Sound in Binary Mixtures of Acrylonitrile with Methyl Acetate, Ethyl Acetate, n-Propyl Acetate, n-Butyl Acetate, and 3-Methylbutyl-2-acetate in the Temperature Interval (298.15-308.15) K. <i>Journal of Chemical & Engineering Data</i> , 1998 , 43, 514-518	2.8	56
531	Waste-to-energy nexus: A sustainable development. <i>Environmental Pollution</i> , 2020 , 267, 115501	9.3	56
530	Synthesis, antimycobacterial screening and ligand-based molecular docking studies on novel pyrrole derivatives bearing pyrazoline, isoxazole and phenyl thiourea moieties. <i>European Journal of Medicinal Chemistry</i> , 2016 , 107, 133-52	6.8	55

529	Hyperbranched polyesters: synthesis, characterization, and molecular simulations. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 8801-11	3.4	55
528	Controlled release of therapeutics using interpenetrating polymeric networks. <i>Expert Opinion on Drug Delivery</i> , 2015 , 12, 669-88	8	54
527	Skin-Patchable Electrodes for Biosensor Applications: A Review. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 1823-1835	5.5	54
526	Chemical compatibility study of geomembranes sorption/desorption, diffusion and swelling phenomena. <i>Journal of Hazardous Materials</i> , 1998 , 60, 175-203	12.8	54
525	Pervaporation separation of toluene/alcohol mixtures using silicalite zeolite embedded chitosan mixed matrix membranes. <i>Separation and Purification Technology</i> , 2008 , 62, 128-136	8.3	54
524	Modified poly(phenylene oxide) membranes for the separation of carbon dioxide from methane. <i>Journal of Membrane Science</i> , 2006 , 280, 202-209	9.6	54
523	Structural and biological studies on benzimidazolyl amino acid complexes of dimethyldichlorosilane. <i>Inorganica Chimica Acta</i> , 1986 , 125, 125-128	2.7	54
522	Amino acid schiff base complexes of dimethyldichlorosilane. <i>Inorganica Chimica Acta</i> , 1985 , 107, 231-234	2.7	54
521	Hyperbranched polyurethane (HBPU)-urea and HBPU-imide coatings: Effect of chain extender and NCO/OH ratio on their properties. <i>Progress in Organic Coatings</i> , 2012 , 74, 134-141	4.8	53
520	Stearic Acid-Coated Chitosan-Based Interpenetrating Polymer Network Microspheres: Controlled Release Characteristics. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 4504-4514	3.9	53
519	Microspheres as floating drug-delivery systems to increase gastric retention of drugs. <i>Drug Metabolism Reviews</i> , 2001 , 33, 149-60	7	53
518	Interactions of substituted benzenes with elastomers. <i>Polymer</i> , 1991 , 32, 870-876	3.9	53
517	Water Permeation through Elastomers and Plastics. <i>Rubber Chemistry and Technology</i> , 1983 , 56, 594-618	1.7	53
516	Prediction of physical properties of nanofiltration membranes for neutral and charged solutes. <i>Desalination</i> , 2011 , 280, 174-182	10.3	52
515	Preyssler type heteropolyacid-incorporated highly water-selective sodium alginate-based inorganic/organic hybrid membranes for pervaporation dehydration of ethanol. <i>Chemical Engineering Journal</i> , 2010 , 159, 75-83	14.7	52
514	Synthesis and characterization of novel polyurethanes based on N1,N4-bis[(4-hydroxyphenyl)methylene]succinohydrazide hard segment. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 2315-2320	2.9	52
513	Novel sodium alginate composite membranes incorporated with SBA-15 molecular sieves for the pervaporation dehydration of aqueous mixtures of isopropanol and 1,4-dioxane at 30°C. <i>Microporous and Mesoporous Materials</i> , 2006 , 91, 206-214	5.3	52
512	Dehydration of 1,4-dioxane through blend membranes of poly(vinyl alcohol) and chitosan by pervaporation. <i>Journal of Membrane Science</i> , 2006 , 280, 138-147	9.6	52

511	Novel ruthenium doped TiO ₂ /reduced graphene oxide hybrid as highly selective sensor for the determination of ambroxol. <i>Journal of Molecular Liquids</i> , 2020 , 300, 112368	6	52
510	Sustainability of treatment technologies for industrial biowastes effluents. <i>Chemical Engineering Journal</i> , 2019 , 370, 1511-1521	14.7	51
509	Chitosan nanoparticles for prolonged delivery of timolol maleate. <i>Drug Development and Industrial Pharmacy</i> , 2007 , 33, 1254-62	3.6	51
508	Density, Viscosity, Refractive Index, and Speed of Sound in Binary Mixtures of 1-Chloronaphthalene with Benzene, Methylbenzene, 1,4-Dimethylbenzene, 1,3,5-Trimethylbenzene, and Methoxybenzene at (298.15, 303.15, and 308.15) K. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 1517-1522	2.8	51
507	Z-scheme binary 1D ZnWO nanorods decorated 2D NiFeO nanoplates as photocatalysts for high efficiency photocatalytic degradation of toxic organic pollutants from wastewater. <i>Journal of Environmental Management</i> , 2020 , 268, 110677	7.9	51
506	Point of care detection of COVID-19: Advancement in biosensing and diagnostic methods. <i>Chemical Engineering Journal</i> , 2021 , 414, 128759	14.7	51
505	Oral insulin delivery using deoxycholic acid conjugated PEGylated polyhydroxybutyrate co-polymeric nanoparticles. <i>Nanomedicine</i> , 2015 , 10, 1569-83	5.6	50
504	Effect of added nickel nitrate on the physical, thermal and morphological characteristics of polyacrylonitrile-based carbon nanofibers. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009 , 162, 75-81	3.1	50
503	Density, Refractive Index, and Speed of Sound in Binary Mixtures of 2-Ethoxyethanol with Dimethyl Sulfoxide, N,N-Dimethylformamide, N,N-Dimethylacetamide at Different Temperatures. <i>Journal of Chemical & Engineering Data</i> , 1997 , 42, 301-303	2.8	50
502	Excess molar volumes, deviations in viscosity and refractive index of the binary mixtures of mesitylene with ethanol, propan-1-ol, propan-2-ol, butan-1-ol, pentan-1-ol, and 3-methylbutan-1-ol at 298.15, 303.15, and 308.15 K. <i>Journal of Molecular Liquids</i> , 2006 , 129, 147-154	6	50
501	Comparison of the pervaporation separation of a water/acetone nitrile mixture with zeolite-filled sodium alginate and poly(vinyl alcohol)/polyaniline semi-interpenetrating polymer network membranes. <i>Journal of Applied Polymer Science</i> , 2005 , 96, 1968-1978	2.9	50
500	Molecular modeling and atomistic simulation strategies to determine surface properties of perfluorinated homopolymers and their random copolymers. <i>Polymer</i> , 2006 , 47, 6914-6924	3.9	49
499	Encapsulation of antihypertensive drugs in cellulose-based matrix microspheres: characterization and release kinetics of microspheres and tableted microspheres. <i>Journal of Microencapsulation</i> , 2001 , 18, 397-409	3.4	49
498	Density, Viscosity, Refractive Index, and Speed of Sound in Binary Mixtures of Methyl Acetate + Ethylene Glycol or + Poly(ethylene glycol) in the Temperature Interval (298.15-308.15) K. <i>Journal of Chemical & Engineering Data</i> , 1998 , 43, 852-855	2.8	49
497	A study of sorption/desorption profiles and diffusion anomalies of organic haloalkanes into a polymeric blend of ethylene-propylene random copolymer and isotactic polypropylene. <i>Polymer</i> , 1996 , 37, 1677-1684	3.9	49
496	Guar gum as platform for the oral controlled release of therapeutics. <i>Expert Opinion on Drug Delivery</i> , 2014 , 11, 753-66	8	48
495	Preparation and in-vitro release of chlorothiazide novel pH-sensitive chitosan-N,N'-dimethylacrylamide semi-interpenetrating network microspheres. <i>Carbohydrate Polymers</i> , 2008 , 71, 208-217	10.3	48
494	Ethyl acetate as a dispersing solvent in the production of poly(DL-lactide-co-glycolide) microspheres: effect of process parameters and polymer type. <i>Journal of Microencapsulation</i> , 2002 , 19, 281-92	3.4	48

493	Thermodynamic properties of (tetradecane+benzene,+toluene,+chlorobenzene,+bromobenzene,+anisole) binary mixtures at T=(298.15, 303.15, and 308.15) K. <i>Journal of Chemical Thermodynamics</i> , 2006 , 38, 1062-1071	2.9	47
492	Preparation and characterization of interpenetrating network beads of poly(vinyl alcohol)-grafted-poly(acrylamide) with sodium alginate and their controlled release characteristics for cypermethrin pesticide. <i>Journal of Applied Polymer Science</i> , 2002 , 84, 552-560	2.9	47
491	Sorption and diffusion of organic solvents in polyurethane elastomers. <i>Polymer</i> , 1990 , 31, 1757-1762	3.9	47
490	Densities and shear viscosities of anisole with nitrobenzene, chlorobenzene, carbon tetrachloride, 1,2-dichloroethane, and cyclohexane from 25 to 40.degree.C. <i>Journal of Chemical & Engineering Data</i> , 1990 , 35, 247-253	2.8	47
489	Mechanisms and modelling of phosphorus solid-liquid transformation during the hydrothermal processing of swine manure. <i>Green Chemistry</i> , 2020 , 22, 5628-5638	10	46
488	Pervaporation separation of dimethylformamide/water mixtures through poly(vinyl alcohol)/poly(acrylic acid) blend membranes. <i>Separation and Purification Technology</i> , 2006 , 51, 104-111	8.3	46
487	Biomass utilization and production of biofuels from carbon neutral materials. <i>Environmental Pollution</i> , 2021 , 276, 116731	9.3	46
486	Synthesis and characterization of novel polyurethanes based on 2,6-bis(4-hydroxybenzylidene) cyclohexanone hard segments. <i>Journal of Applied Polymer Science</i> , 2007 , 104, 81-88	2.9	45
485	Evaluation and controlled release characteristics of modified xanthan films for transdermal delivery of atenolol. <i>Drug Development and Industrial Pharmacy</i> , 2007 , 33, 79-90	3.6	45
484	Permeation of Carbon Dioxide and Methane Gases through Novel Silver-Incorporated Thin Film Composite Pebax Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 8144-8151	3.9	45
483	Urea-formaldehyde crosslinked starch and guar gum matrices for encapsulation of natural liquid pesticide [Azadirachta Indica A. Juss. (neem) seed oil]: swelling and release kinetics. <i>Journal of Applied Polymer Science</i> , 1999 , 73, 2437-2446	2.9	45
482	Kinetic and thermodynamic study on the sorption of liquids by polymer films: A simple laboratory experiment. <i>Journal of Chemical Education</i> , 1991 , 68, 343	2.4	45
481	Sustainable energy from waste organic matters via efficient microbial processes. <i>Science of the Total Environment</i> , 2020 , 722, 137927	10.2	44
480	Zeolite K-LTL-loaded sodium alginate mixed matrix membranes for pervaporation dehydration of aqueous-organic mixtures. <i>Journal of Membrane Science</i> , 2007 , 306, 173-185	9.6	44
479	Membrane-based microfiltration/electrodialysis hybrid process for the treatment of paper industry wastewater. <i>Separation and Purification Technology</i> , 2007 , 57, 185-192	8.3	44
478	Determination of Henry's law constants of organics in dilute aqueous solutions. <i>Journal of Chemical & Engineering Data</i> , 1993 , 38, 546-550	2.8	44
477	An Overview of the Theoretical Models Used to Predict Transport of Small Molecules through Polymer Membranes. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 1988 , 28, 421-474		44
476	Use of mixing rules in the analysis of data for binary liquid mixtures. <i>Journal of Chemical & Engineering Data</i> , 1984 , 29, 54-55	2.8	44

475	Extraction, characterization and gelling behavior enhancement of pectins from the cladodes of <i>Opuntia ficus indica</i> . <i>International Journal of Biological Macromolecules</i> , 2016 , 82, 645-52	7.9	43
474	Polymeric blend nanocomposite membranes for ethanol dehydration—Effect of morphology and membrane-solvent interactions. <i>Journal of Membrane Science</i> , 2013 , 430, 321-329	9.6	43
473	Synthesis and characterization of novel polyureas based on benzimidazoline-2-one and benzimidazoline-2-thione hard segments. <i>Journal of Applied Polymer Science</i> , 2006 , 100, 576-583	2.9	43
472	Controlled release of diclofenac sodium and ibuprofen through beads of sodium alginate and hydroxy ethyl cellulose blends. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 5708-5718	2.9	43
471	Synthesis and characterization of polyacrylamide-grafted sodium alginate copolymeric membranes and their use in pervaporation separation of water and tetrahydrofuran mixtures. <i>Journal of Applied Polymer Science</i> , 2002 , 86, 272-281	2.9	43
470	Encapsulation efficiency and release kinetics of solid and liquid pesticides through urea formaldehyde crosslinked starch, guar gum, and starch + guar gum matrices. <i>Journal of Applied Polymer Science</i> , 2001 , 82, 2863-2866	2.9	43
469	Novel hyperbranched waterborne polyurethane-urea/silica hybrid coatings and their characterizations. <i>Polymer International</i> , 2011 , 60, 1504-1513	3.3	42
468	Pervaporation-aided dehydration and esterification of acetic acid with ethanol using 4A zeolite-filled cross-linked sodium alginate-mixed matrix membranes. <i>Journal of Applied Polymer Science</i> , 2009 , 113, 157-168	2.9	42
467	Pervaporation Separation of Water/2-Propanol Mixtures by Use of the Blend Membranes of Sodium Alginate and (Hydroxyethyl)cellulose: Roles of Permeate-Membrane Interactions, Zeolite Filling, and Membrane Swelling. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 7481-7489	3.9	42
466	Synthesis and characterization of novel polyurethanes based on 1,3-bis(hydroxymethyl) benzimidazolin-2-one and 1,3-bis(hydroxymethyl) benzimidazolin-2-thione hard segments. <i>Journal of Applied Polymer Science</i> , 2005 , 98, 2236-2244	2.9	42
465	Concentration dependence of the translational diffusion and the sedimentation velocity of sodium dodecyl sulfate micelles in water and in 0.1 m sodium chloride solutions at 25.degree.C. <i>The Journal of Physical Chemistry</i> , 1982 , 86, 1254-1256		42
464	Microplastics in the environment: Occurrence, perils, and eradication. <i>Chemical Engineering Journal</i> , 2021 , 408, 127317	14.7	42
463	Free standing thin webs of porous carbon nanofibers of polyacrylonitrile containing iron-oxide by electrospinning. <i>Materials Letters</i> , 2009 , 63, 218-220	3.3	41
462	Poly(vinyl alcohol)-zeolite T mixed matrix composite membranes for pervaporation separation of water+1,4-dioxane mixtures. <i>Separation and Purification Technology</i> , 2008 , 58, 377-385	8.3	41
461	Densities, viscosities, refractive indices, and speeds of sound in methyl acetoacetate + methyl acetate + ethyl acetate, + n-butyl acetate, + methyl benzoate, and + ethyl benzoate at 298.15, 303.15, and 308.15 K. <i>Journal of Chemical & Engineering Data</i> , 1993 , 38, 441-445	2.8	41
460	Synthesis and characterization of novel polyurethanes based on 4,4'-[1,4-phenylenedi-diazene-2,1-diyl]bis(2-carboxyphenol) and 4,4'-[1,4-phenylenedi-diazene-2,1-diyl]bis(2-chlorophenol) hard segments. <i>Reactive and Functional Polymers</i> , 2007 , 67, 503-514	4.6	40
459	TRANSPORT STUDIES ON MACROMOLECULES USED AS DRUG CARRIERS. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 1990 , 30, 441-490		40
458	Densities and viscosities of binary liquid mixtures of anisole with methanol and benzene. <i>Journal of Chemical & Engineering Data</i> , 1990 , 35, 187-189	2.8	40

457	Novel pH- and temperature-responsive blend hydrogel microspheres of sodium alginate and PNIPAAm-g-GG for controlled release of isoniazid. <i>AAPS PharmSciTech</i> , 2012 , 13, 1147-57	3.9	39
456	Synthesis and characterization of crosslinked polyurethane dispersions based on hydroxylated polyesters. <i>Journal of Applied Polymer Science</i> , 2006 , 99, 368-380	2.9	39
455	Thermal, viscoelastic, solution and membrane properties of sodium alginate/hydroxyethylcellulose blends. <i>Carbohydrate Polymers</i> , 2005 , 61, 52-60	10.3	39
454	A study on mixing properties of binary mixtures of bromoform with aliphatic alcohols. <i>Journal of Chemical & Engineering Data</i> , 1993 , 38, 310-319	2.8	39
453	A review of polymeric geosynthetics used in hazardous waste facilities. <i>Journal of Hazardous Materials</i> , 1995 , 42, 115-156	12.8	39
452	Cellulose acetate-coated alumina ceramic composite tubular membranes for wastewater treatment. <i>Desalination</i> , 2011 , 281, 348-353	10.3	38
451	Synthesis and characterization of novel Schiff base polyurethanes. <i>Journal of Applied Polymer Science</i> , 2009 , 113, 2747-2754	2.9	38
450	Separation of binary mixtures of carbon dioxide and methane through sulfonated polycarbonate membranes. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 1749-1756	2.9	38
449	Synthesis, characterization, and acoustic properties of new soluble polyurethanes based on 2,2'-[1,4-phenylenebis(nitrilomethylylidene)diphenol and 2,2'-[4,4'-methylene-di-2-methylphenylene-1,1'-bis(nitrilomethylylidene)]diphenol. <i>Journal of Applied Polymer Science</i> , 2007 , 106, 299-308	2.9	38
448	Solubility of Rofecoxib in the Presence of Methanol, Ethanol, and Sodium Lauryl Sulfate at (298.15, 303.15, and 308.15) K. <i>Journal of Chemical & Engineering Data</i> , 2003 , 48, 942-945	2.8	38
447	Densities, Viscosities, and Refractive Indices of the Binary Mixtures of Bis(2-methoxyethyl) Ether with 1-Propanol, 1-Butanol, 2-Methyl-1-propanol, and 2-Methyl-2-propanol. <i>Journal of Chemical & Engineering Data</i> , 1994 , 39, 865-867	2.8	38
446	Molecular transport of alkanes through thermoplastic miscible blends of ethylene-propylene random copolymer and isotactic polypropylene. <i>Journal of Applied Polymer Science</i> , 1995 , 55, 1335-1352	2.9	38
445	Electrochemical investigations for COVID-19 detection-A comparison with other viral detection methods. <i>Chemical Engineering Journal</i> , 2021 , 420, 127575	14.7	38
444	Preparation and characterization of filled matrix membranes of sodium alginate incorporated with aluminum-containing mesoporous silica for pervaporation dehydration of alcohols. <i>Separation and Purification Technology</i> , 2007 , 54, 34-43	8.3	37
443	Polyacrylonitrile-g-poly(vinyl alcohol) membranes for the pervaporation separation of dimethyl formamide and water mixtures. <i>Journal of Applied Polymer Science</i> , 2004 , 91, 4091-4097	2.9	37
442	Synthesis, characterization, and molecular modeling studies of novel polyurethanes based on 2,2'-[ethane-1,2-diylbis(nitrilomethylylidene)]diphenol and 2,2'-[hexane-1,6-diylbis(nitrilomethylylidene)] diphenol hard segments. <i>Journal of Polymer Science Part A</i> , 2006 , 44, 6032-6046	2.5	35
441	Diffusion and sorption of organic liquids through polymer membranes. VIII. Elastomers versus monocyclic aromatic liquids. <i>Journal of Applied Polymer Science</i> , 1992 , 46, 725-732	2.9	35
440	Hetero-nanostructured iron oxide and bentonite clay composite assembly for the determination of an antiviral drug acyclovir. <i>Microchemical Journal</i> , 2020 , 155, 104727	4.8	34

439	Development of transdermal drug-delivery films with castor-oil-based polyurethanes. <i>Journal of Applied Polymer Science</i> , 2007 , 103, 779-788	2.9	34
438	Novel sodium alginate-poly(N-isopropylacrylamide) semi-interpenetrating polymer network membranes for pervaporation separation of water+ethanol mixtures. <i>Separation and Purification Technology</i> , 2007 , 56, 150-157	8.3	34
437	Pervaporation separation of water-isopropanol mixtures using polymeric membranes: Modeling and simulation aspects. <i>Journal of Applied Polymer Science</i> , 2005 , 95, 1143-1153	2.9	34
436	Isolation and Characterization of the Saturate and Aromatic Fractions of a Maya Crude Oil. <i>Energy & Fuels</i> , 2000 , 14, 839-844	4.1	34
435	Synthesis of different biofuels from livestock waste materials and their potential as sustainable feedstocks [A review]. <i>Energy Conversion and Management</i> , 2021 , 236, 114038	10.6	34
434	Molecular insights and novel approaches for targeting tumor metastasis. <i>International Journal of Pharmaceutics</i> , 2020 , 585, 119556	6.5	33
433	Enhanced biodegradation of phenolic wastewaters with acclimatized activated sludge [A kinetic study]. <i>Chemical Engineering Journal</i> , 2019 , 378, 122186	14.7	33
432	Sodium alginate-magnesium aluminum silicate mixed matrix membranes for pervaporation separation of water-isopropanol mixtures. <i>Separation and Purification Technology</i> , 2008 , 59, 221-230	8.3	33
431	Pervaporation separation of water and dioxane mixtures with sodium alginate-g-polyacrylamide copolymeric membranes. <i>Journal of Applied Polymer Science</i> , 2003 , 89, 300-305	2.9	33
430	Biochar in water and wastewater treatment - a sustainability assessment. <i>Chemical Engineering Journal</i> , 2021 , 420, 129946	14.7	33
429	Molecular dynamics simulations to compute diffusion coefficients of gases into polydimethylsiloxane and poly{(1,5-naphthalene)-co-[1,4-durene-2,2'-bis(3,4-dicarboxyl phenyl)hexafluoropropane diimide]}. <i>Polymer International</i> , 2007 , 56, 928-934	3.3	32
428	Acrylamide-grafted-acacia gum polymer matrix tablets as erosion-controlled drug delivery systems. <i>Journal of Applied Polymer Science</i> , 2004 , 93, 2245-2253	2.9	32
427	Sorption/desorption, diffusion, permeation and swelling of high density polyethylene geomembrane in the presence of hazardous organic liquids. <i>Journal of Hazardous Materials</i> , 1999 , 64, 251-262	12.8	32
426	Sorption kinetics and diffusion of alkanes into tetrafluoroethylene/propylene copolymer membranes. <i>Journal of Applied Polymer Science</i> , 1996 , 59, 1857-1870	2.9	32
425	Evaluation of excess parameters from densities and viscosities of binary mixtures of ethanol with anisole, N,N-dimethylformamide, carbon tetrachloride, and acetophenone from 298.15 to 313.15 K. <i>Industrial & Engineering Chemistry Research</i> , 1990 , 29, 2106-2111	3.9	32
424	Novel anisotropic ordered polymeric materials based on metallopolymer precursors as dye sensitized solar cells. <i>Chemical Engineering Journal</i> , 2019 , 358, 1166-1175	14.7	32
423	Exploration of nanocomposite membranes composed of phosphotungstic acid in sodium alginate for separation of aqueous-organic mixtures by pervaporation. <i>Separation and Purification Technology</i> , 2013 , 113, 64-74	8.3	31
422	Molecular dynamics simulations on the blends of poly(vinyl pyrrolidone) and poly(bisphenol-A-ether sulfone). <i>Journal of Applied Polymer Science</i> , 2008 , 108, 3572-3576	2.9	31

4 ²¹	Polymeric sodium alginate interpenetrating network beads for the controlled release of chlorpyrifos. <i>Journal of Applied Polymer Science</i> , 2002 , 85, 911-918	2.9	3 ¹
4 ²⁰	Thermodynamic Interactions in Binary Mixtures of Styrene with n-Alkanes at 298.15 K. <i>Bulletin of the Chemical Society of Japan</i> , 1999 , 72, 1187-1195	5.1	3 ¹
4 ¹⁹	Sorption/diffusion of aliphatic esters into tetrafluoroethylene/propylene copolymeric membranes in the temperature interval from 25 to 70 °C. <i>European Polymer Journal</i> , 1996 , 32, 1117-1126	5.2	3 ¹
4 ¹⁸	Synthesis, characterization and antitubercular activities of novel pyrrolyl hydrazones and their Cu-complexes. <i>European Journal of Medicinal Chemistry</i> , 2016 , 121, 21-39	6.8	3 ¹
4 ¹⁷	Microencapsulation of doxycycline into poly(lactide-co-glycolide) by spray drying technique: Effect of polymer molecular weight on process parameters. <i>Journal of Applied Polymer Science</i> , 2008 , 108, 4038-4046	2.9	3 ⁰
4 ¹⁶	Atomistic simulations to compute surface properties of poly(N-vinyl-2-pyrrolidone) (PVP) and blends of PVP/chitosan. <i>Langmuir</i> , 2007 , 23, 5439-44	4	3 ⁰
4 ¹⁵	Thermodynamics/hydrodynamics of aqueous polymer solutions and dynamic mechanical characterization of solid films of chitosan, sodium alginate, guar gum, hydroxy ethyl cellulose and hydroxypropyl methylcellulose at different temperatures. <i>Carbohydrate Polymers</i> , 2006 , 65, 9-21	10.3	3 ⁰
4 ¹⁴	Pervaporation separation of water/acetic acid mixtures using polymeric membranes. <i>Designed Monomers and Polymers</i> , 2003 , 6, 211-236	3.1	3 ⁰
4 ¹³	MOLECULAR TRANSPORT OF ORGANIC LIQUIDS THROUGH POLYMER FILMS. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 1989 , 29, 319-363		3 ⁰
4 ¹²	Densities and viscosities of binary liquid mixtures containing bromoform at 45.degree.C. <i>Journal of Chemical & Engineering Data</i> , 1988 , 33, 184-185	2.8	3 ⁰
4 ¹¹	Synthesis of Ca-doped ZnO nanoparticles and its application as highly efficient electrochemical sensor for the determination of anti-viral drug, acyclovir. <i>Journal of Molecular Liquids</i> , 2021 , 322, 114552 ⁶		3 ⁰
4 ¹⁰	Computer simulation and comparative study on the pervaporation separation characteristics of sodium alginate and its blend membranes with poly(vinyl alcohol) to separate aqueous mixtures of 1,4-dioxane or tetrahydrofuran. <i>Journal of Applied Polymer Science</i> , 2004 , 94, 1827-1840	2.9	2 ⁹
4 ⁰⁹	Sorption/desorption, diffusion, and swelling characteristics of geomembranes in the presence of halo-organic liquids. <i>Journal of Applied Polymer Science</i> , 1999 , 72, 349-359	2.9	2 ⁹
4 ⁰⁸	Density and Refractive Index of the Binary Mixtures of Cyclohexane with Dodecane, Tridecane, Tetradecane, and Pentadecane at (298.15, 303.15, and 308.15) K. <i>Journal of Chemical & Engineering Data</i> , 1996 , 41, 526-528	2.8	2 ⁹
4 ⁰⁷	Densities and viscosities of binary liquid mixtures at 45.degree.C. <i>Journal of Chemical & Engineering Data</i> , 1987 , 32, 409-412	2.8	2 ⁹
4 ⁰⁶	Studies of glycine acetophenone complexes of copper(II), cobalt(II) and oxovanadium(IV). <i>Polyhedron</i> , 1984 , 3, 575-580	2.7	2 ⁹
4 ⁰⁵	Biodegradable polymeric microspheres of gelatin and carboxymethyl guar gum for controlled release of theophylline. <i>Polymer Bulletin</i> , 2014 , 71, 1625-1643	2.4	2 ⁸
4 ⁰⁴	Novel sodium alginate composite membranes prepared by incorporating cobalt(III) complex particles used in pervaporation separation of water/acetic acid mixtures at different temperatures. <i>Journal of Materials Science</i> , 2007 , 42, 4406-4417	4.3	2 ⁸

403	Solubility study of hazardous pesticide (chlorpyrifos) by gas chromatography. <i>Journal of Hazardous Materials</i> , 2000 , 80, 9-13	12.8	28
402	Sorption, desorption, diffusion, and permeation of aliphatic alkanes into santoprene thermoplastic rubber. <i>Journal of Applied Polymer Science</i> , 1995 , 55, 17-37	2.9	28
401	Coated Interpenetrating Blend Microparticles of Chitosan and Guar Gum for Controlled Release of Isoniazid. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 6399-6409	3.9	27
400	Photocatalytic water splitting hydrogen production via environmental benign carbon based nanomaterials. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 33696-33717	6.7	27
399	Industrial biowastes treatment using membrane bioreactors (MBRs) -a scientometric study. <i>Journal of Environmental Management</i> , 2019 , 247, 462-473	7.9	26
398	Synthesis and characterization of novel polyorganophosphazenes substituted with 4-methoxybenzylamine and 4-methoxyphenethylamine for in vitro release of indomethacin and 5-fluorouracil. <i>Reactive and Functional Polymers</i> , 2006 , 66, 1149-1157	4.6	26
397	Excess molar volume, excess isentropic compressibility and excess molar refraction of binary mixtures of methyl acetoacetate with benzene, toluene, m-xylene, mesitylene and anisole. <i>Fluid Phase Equilibria</i> , 1992 , 71, 99-112	2.5	26
396	Permeation and diffusion of environmental pollutants through flexible polymers. <i>Journal of Applied Polymer Science</i> , 1989 , 38, 227-236	2.9	26
395	RUBBER-SOLVENT INTERACTIONS. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 1991 , 31, 433-498		26
394	Biologically active sulfonamide schiff base complexes of selenium(IV) and tellurium(IV). <i>Inorganica Chimica Acta</i> , 1982 , 67, 177-182	2.7	26
393	Design, synthesis, molecular docking and 3D-QSAR studies of potent inhibitors of enoyl-acyl carrier protein reductase as potential antimycobacterial agents. <i>European Journal of Medicinal Chemistry</i> , 2014 , 71, 199-218	6.8	25
392	Synthesis and characterization of novel poly(sebacic anhydride-co-Pluronic F68/F127) biopolymeric microspheres for the controlled release of nifedipine. <i>International Journal of Pharmaceutics</i> , 2007 , 345, 51-8	6.5	25
391	Molecular modeling study on surface, thermal, mechanical and gas diffusion properties of chitosan. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 1260-1270	2.6	25
390	Electrodialytic removal of nitrates and hardness from simulated mixtures using ion-exchange membranes. <i>Journal of Applied Polymer Science</i> , 2006 , 99, 1788-1794	2.9	25
389	A Laboratory Method for the Determination of Henry's Law Constants of Volatile Organic Chemicals. <i>Journal of Chemical Education</i> , 1995 , 72, 93	2.4	25
388	Densities, refractive indices, speeds of sound, and viscosities of diethylene glycol dimethyl ether + butyl acetate at 298.15, 303.15, 308.15, 313.15, and 318.15 K. <i>Journal of Chemical & Engineering Data</i> , 1993 , 38, 542-545	2.8	25
387	Resistance of barrier elastomers to hazardous organic liquids. <i>Journal of Hazardous Materials</i> , 1991 , 28, 281-294	12.8	25
386	Excess Polarizability and Volume of Mixing and Their Effect on the Partial Specific Volume and the Refractive Increment of Polymers in Mixed Solvents. <i>Macromolecules</i> , 1979 , 12, 1186-1194	5.5	25

385	Electrochemical sensors for the detection of SARS-CoV-2 virus. <i>Chemical Engineering Journal</i> , 2022 , 430, 132966	14.7	25
384	Nanocarbons-Supported and Polymers-Supported Titanium Dioxide Nanostructures as Efficient Photocatalysts for Remediation of Contaminated Wastewater and Hydrogen Production. <i>Environmental Chemistry for A Sustainable World</i> , 2020 , 139-169	0.8	25
383	Removal of manganese from groundwater in the ripened sand filtration: Biological oxidation versus chemical auto-catalytic oxidation. <i>Chemical Engineering Journal</i> , 2020 , 382, 123033	14.7	25
382	Nano-enabled drug delivery systems for brain cancer and Alzheimer's disease: research patterns and opportunities. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015 , 11, 1763-71	6	24
381	Inter-polymer complex microspheres of chitosan and cellulose acetate phthalate for oral delivery of 5-fluorouracil. <i>Polymer Bulletin</i> , 2014 , 71, 2113-2131	2.4	24
380	Novel blend microspheres of poly(vinyl alcohol) and succinyl chitosan for controlled release of nifedipine. <i>Polymer Bulletin</i> , 2013 , 70, 3387-3406	2.4	24
379	Chemical compatibility testing of geomembranes for sorption/desorption, diffusion, permeation and swelling phenomena. <i>Geotextiles and Geomembranes</i> , 1998 , 16, 333-354	5.2	24
378	Graft copolymerization of methacrylic acid onto guar gum, using potassium persulfate as an initiator. <i>Journal of Applied Polymer Science</i> , 2006 , 101, 618-623	2.9	24
377	Preparation of cross-linked sodium alginate microparticles using glutaraldehyde in methanol. <i>Drug Development and Industrial Pharmacy</i> , 2000 , 26, 1121-4	3.6	24
376	Molecular transport of some industrial solvents through a polyurethane membrane. <i>Journal of Applied Polymer Science</i> , 1991 , 42, 2837-2844	2.9	24
375	Sorption and diffusion of aldehydes and ketones into elastomers. <i>Polymer International</i> , 1993 , 32, 61-70	3.3	24
374	Synthesis, characterization, biological activity, and 3D-QSAR studies on some novel class of pyrrole derivatives as antitubercular agents. <i>Medicinal Chemistry Research</i> , 2014 , 23, 1123-1147	2.2	23
373	Microspheres of carboxymethyl guar gum for in vitro release of abacavir sulfate: Preparation and characterization. <i>Journal of Applied Polymer Science</i> , 2011 , 122, 452-460	2.9	23
372	Activated charcoal-loaded composite membranes of sodium alginate in pervaporation separation of water-organic azeotropes. <i>Journal of Applied Polymer Science</i> , 2009 , 113, 966-975	2.9	23
371	Development of chitosan-guar gum semi-interpenetrating polymer network microspheres for controlled release of cefadroxil. <i>Designed Monomers and Polymers</i> , 2006 , 9, 491-501	3.1	23
370	Electrical Resistivity of Carbon-Black-Loaded Rubbers. <i>Rubber Chemistry and Technology</i> , 1990 , 63, 451-477	4.7	23
369	INTERACTIONS OF ORGANIC SOLVENTS WITH POLYURETHANE. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 1990 , 30, 43-105		23
368	Schiff-base complexes of dimethyldichlorosilane. <i>Inorganica Chimica Acta</i> , 1984 , 82, 211-214	2.7	23

- 367 Diffusion coefficients of some nonideal liquid mixtures. *The Journal of Physical Chemistry*, **1980**, 84, 442-446 23
- 366 Acetal containing polymers as pH-responsive nano-drug delivery systems. *Journal of Controlled Release*, **2020**, 328, 736-761 11.7 23
- 365 Ultrasonication and electrochemically-assisted synthesis of reduced graphene oxide nanosheets for electrochemical sensor applications. *FlatChem*, **2020**, 23, 100183 5.1 23
- 364 Photocatalysis of Graphene and Carbon Nitride-Based Functional Carbon Quantum Dots **2019**, 759-781 23
- 363 Aluminum-based metal-organic frameworks for adsorptive removal of anti-cancer (methotrexate) drug from aqueous solutions. *Journal of Environmental Management*, **2021**, 277, 111448 7.9 23
- 362 Biochar for soil applications-sustainability aspects, challenges and future prospects. *Chemical Engineering Journal*, **2022**, 428, 131189 14.7 23
- 361 Novel Semi-interpenetrating Microspheres of Dextran-grafted-Acrylamide and Poly(Vinyl Alcohol) for Controlled Release of Abacavir Sulfate. *Industrial & Engineering Chemistry Research*, **2011**, 50, 11778-11784 3.9 22
- 360 Pervaporation separation of isopropanol/water mixtures using mixed matrix blend membranes of poly(vinyl alcohol)/poly(vinyl pyrrolidone) loaded with phosphomolybdic acid. *Journal of Applied Polymer Science*, **2011**, 121, 711-719 2.9 22
- 359 Sequential interpenetrating polymer network hydrogel microspheres of poly(methacrylic acid) and poly(vinyl alcohol) for oral controlled drug delivery to intestine. *Journal of Microencapsulation*, **2008**, 25, 228-40 3.4 22
- 358 Volumetric, acoustic, optical, and viscometric properties of binary mixtures of 2-methoxyethanol with aliphatic alcohols (C1-C8). *Industrial & Engineering Chemistry Research*, **1993**, 32, 931-936 3.9 22
- 357 Diffusivity, permeability, and sorptivity of aliphatic alcohols through polyurethane membrane at 25, 44, and 60 .degree.C. *Journal of Chemical & Engineering Data*, **1990**, 35, 298-303 2.8 22
- 356 Viscosities of binary liquid mixtures. *Journal of Chemical & Engineering Data*, **1987**, 32, 50-52 2.8 22
- 355 Recent advances and viability in biofuel production. *Energy Conversion and Management: X*, **2021**, 10, 100070 2.5 22
- 354 Ultra-small zinc oxide nanosheets anchored onto sodium bismuth sulfide nanoribbons as solar-driven photocatalysts for removal of toxic pollutants and photoelectrocatalytic water oxidation. *Chemosphere*, **2021**, 267, 128559 8.4 22
- 353 Synergistic degradation of 4-chlorophenol by persulfate and oxalic acid mixture with heterogeneous Fenton like system for wastewater treatment: Adaptive neuro-fuzzy inference systems modeling. *Journal of Environmental Management*, **2020**, 268, 110678 7.9 21
- 352 Electrochemical detection of herbicide, amitrole at WO₃.33H₂O modified carbon paste electrode for environmental applications. *Science of the Total Environment*, **2020**, 743, 140691 10.2 21
- 351 Preparation and evaluation of cellulose acetate butyrate and poly(ethylene oxide) blend microspheres for gastroretentive floating delivery of repaglinide. *Journal of Applied Polymer Science*, **2007**, 105, 2764-2771 2.9 21
- 350 Use of Polymers in Concrete Technology. *Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics*, **1982**, 22, 1-55 21

349	Densities, viscosities, and speeds of sound for diethylene glycol dimethyl ether + methyl acetate. <i>Journal of Chemical & Engineering Data</i> , 1993 , 38, 540-541	2.8	21
348	Advances in transition metal dichalcogenide-based two-dimensional nanomaterials. <i>Materials Today Chemistry</i> , 2021 , 19, 100399	6.2	21
347	Novel Z-scheme binary zinc tungsten oxide/nickel ferrite nanohybrids for photocatalytic reduction of chromium (Cr (VI)), photoelectrochemical water splitting and degradation of toxic organic pollutants. <i>Journal of Hazardous Materials</i> , 2022 , 423, 127044	12.8	21
346	A review of pharmacological and clinical studies on the application of Shenling Baizhu San in treatment of Ulcerative colitis. <i>Journal of Ethnopharmacology</i> , 2019 , 244, 112105	5	20
345	Nitrogen rich hyperbranched polyol via A3 + B3 polycondensation: thermal, mechanical, anti-corrosive and antimicrobial properties of poly (urethane-urea). <i>Journal of Polymer Research</i> , 2014 , 21, 1	2.7	20
344	Novel blend microspheres of cellulose triacetate and bee wax for the controlled release of nateglinide. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 397-404	6.3	20
343	Ultra-small fluorescent bile acid conjugated PHBBEG block copolymeric nanoparticles: synthesis, characterization and cellular uptake. <i>RSC Advances</i> , 2013 , 3, 7064	3.7	20
342	Preparation and characterization of novel semi-interpenetrating polymer network hydrogel microspheres of chitosan and hydroxypropyl cellulose for controlled release of chlorothiazide. <i>Journal of Microencapsulation</i> , 2009 , 26, 27-36	3.4	20
341	Computation of surface energy and surface segregation phenomena of perfluorinated copolymers and blends [A molecular modeling approach. <i>Polymer</i> , 2007 , 48, 417-424	3.9	20
340	Synthesis and characterization of polyacrylamidegrafted sodium alginate membranes for pervaporation separation of water + isopropanol mixtures. <i>Journal of Applied Polymer Science</i> , 2004 , 92, 2030-2037	2.9	20
339	Sorption, diffusion, and permeation of esters, aldehydes, ketones, and aromatic liquids into tetrafluoroethylene/propylene at 30, 40, and 50°C. <i>Journal of Applied Polymer Science</i> , 2003 , 89, 3201-3209	2.9	20
338	Polymers derived from 2-phenyl-1,1,1,3,3,3-hexafluoropropan-2-ol and its derivatives. <i>European Polymer Journal</i> , 1995 , 31, 353-361	5.2	20
337	Diffusion and sorption of organic liquids through polymer membranes. VI. Polyurethane, neoprene, natural rubber, nitrile butadiene rubber, styrene butadiene rubber, and ethylene propylene diene terpolymer versus organic esters. <i>Journal of Applied Polymer Science</i> , 1992 , 46, 909-920	2.9	20
336	Sorption and diffusion of organic esters into fluoropolymer membranes. <i>Journal of Applied Polymer Science</i> , 1993 , 48, 857-865	2.9	20
335	Viscosities and densities of binary liquid mixtures of dimethyl sulfoxide with chlorobenzene, pyridine, and methyl ethyl ketone at 25, 35, 45 and 55.degree.C. <i>Journal of Chemical & Engineering Data</i> , 1986 , 31, 15-18	2.8	20
334	Next generation polymers of intrinsic microporosity with tunable moieties for ultrahigh permeation and precise molecular CO2 separation. <i>Progress in Energy and Combustion Science</i> , 2021 , 84, 100903	33.6	20
333	A novel sensor based on WO3.33HO nanorods modified electrode for the detection and degradation of herbicide, carbendazim. <i>Journal of Environmental Management</i> , 2021 , 279, 111611	7.9	20
332	Conventional and Nanotechnology-Based Sensing Methods for SARS Coronavirus (2019-nCoV). <i>ACS Applied Bio Materials</i> , 2021 , 4, 1178-1190	4.1	20

331	Simultaneous detection and removal of fluoride from water using smart metal-organic framework-based adsorbents. <i>Coordination Chemistry Reviews</i> , 2021 , 445, 214037	23.2	20
330	In vitro cytotoxicity and in vivo efficacy of 5-fluorouracil-loaded enteric-coated PEG-crosslinked chitosan microspheres in colorectal cancer therapy in rats. <i>Drug Delivery</i> , 2015 , 1-14	7	19
329	Scientometric analysis and scientific trends on biochar application as soil amendment. <i>Chemical Engineering Journal</i> , 2020 , 395, 125128	14.7	19
328	Poly(methylmethacrylate)-poly(vinyl pyrrolidone) microspheres as drug delivery systems: Indomethacin/cefadroxil loading and in vitro release study. <i>Journal of Applied Polymer Science</i> , 2007 , 104, 1860-1865	2.9	19
327	Formulation and evaluation of novel tableted chitosan microparticles for the controlled release of clozapine. <i>Journal of Microencapsulation</i> , 2004 , 21, 709-18	3.4	19
326	In vitro release study of verapamil hydrochloride through sodium alginate interpenetrating monolithic membranes. <i>Drug Development and Industrial Pharmacy</i> , 2001 , 27, 1107-14	3.6	19
325	Resistance of barrier elastomers to hazardous organic liquids. <i>Journal of Applied Polymer Science</i> , 1992 , 45, 1107-1125	2.9	19
324	Enoyl ACP reductase as effective target for the synthesized novel antitubercular drugs: a-state-of-the-art. <i>Mini-Reviews in Medicinal Chemistry</i> , 2014 , 14, 678-93	3.2	19
323	Application of the electro-dialytic pilot plant for fluoride removal. <i>Journal of Water Chemistry and Technology</i> , 2011 , 33, 293-300	0.4	18
322	Randomized, controlled, single-masked, clinical study to compare and evaluate the efficacy of microspheres and gel in periodontal pocket therapy. <i>Journal of Periodontology</i> , 2011 , 82, 114-21	4.6	18
321	Novel methyl cellulose-grafted-acrylamide/gelatin microspheres for controlled release of nifedipine. <i>Journal of Applied Polymer Science</i> , 2010 , 115, 3542-3549	2.9	18
320	Synthesis, Characterization and Gas Permeability of an Activated Carbon-Loaded PEBAX 2533 Membrane. <i>Designed Monomers and Polymers</i> , 2008 , 11, 17-27	3.1	18
319	Sodium alginate-poly(hydroxyethylmethacrylate) interpenetrating polymeric network membranes for the pervaporation dehydration of ethanol and tetrahydrofuran. <i>Journal of Applied Polymer Science</i> , 2006 , 101, 3324-3329	2.9	18
318	Release kinetics and diffusion coefficients of solid and liquid pesticides through interpenetrating polymer network beads of polyacrylamide-g-guar gum with sodium alginate. <i>Journal of Applied Polymer Science</i> , 2003 , 90, 451-457	2.9	18
317	Density, Viscosity, Refractive Index, and Speed of Sound of Ternary Systems: Polystyrene in 1,4-Dioxane + Tetrahydrofuran Mixtures at (298.15, 303.15, and 308.15) K. <i>Journal of Chemical & Engineering Data</i> , 2000 , 45, 920-925	2.8	18
316	An assessment of chemical compatibility of bromobutyl rubber, chlorosulfonated polyethylene and epichlorohydrin membranes in the presence of some hazardous organic liquids. <i>Journal of Hazardous Materials</i> , 1994 , 38, 223-242	12.8	18
315	Sorption and transport of aqueous salt solutions of acetates, acetic and monochloroacetic acids in polyurethane. <i>Polymer</i> , 1990 , 31, 2346-2352	3.9	18
314	Prediction of transport properties of permeants through polymer films: A simple gravimetric experiment. <i>Journal of Chemical Education</i> , 1988 , 65, 368	2.4	18

313	Spectral and magnetic studies of amino-acid schiff base complexes of nickel(II). <i>Inorganica Chimica Acta</i> , 1984 , 91, 49-52	2.7	18
312	Underground carbon dioxide sequestration for climate change mitigation – A scientometric study. <i>Journal of CO2 Utilization</i> , 2019 , 33, 179-188	7.6	17
311	Two- and three-dimensional QSAR studies on a set of antimycobacterial pyrroles: CoMFA, Topomer CoMFA, and HQSAR. <i>Medicinal Chemistry Research</i> , 2014 , 23, 107-126	2.2	17
310	Blend Hydrogel Microspheres of Carboxymethyl Chitosan and Gelatin for the Controlled Release of 5-Fluorouracil. <i>Pharmaceutics</i> , 2017 , 9,	6.4	17
309	Morphological characterization of electrospun carbon nanofiber mats of polyacrylonitrile containing heteropolyacids. <i>Synthetic Metals</i> , 2009 , 159, 1496-1504	3.6	17
308	A study on molecular transport of organic esters and aromatics into viton fluoropolymers. <i>Journal of Applied Polymer Science</i> , 1997 , 66, 717-723	2.9	17
307	Rheological properties and drug release characteristics of pH-responsive hydrogels. <i>Journal of Applied Polymer Science</i> , 2004 , 94, 2057-2064	2.9	17
306	Electrically modulated transport of diclofenac salts through hydrogels of sodium alginate, carbopol, and their blend polymers. <i>Journal of Applied Polymer Science</i> , 2005 , 96, 301-311	2.9	17
305	Interactions of chlorosulfonated polyethylene geomembranes with aliphatic esters: Sorption and diffusion phenomena. <i>Waste Management</i> , 1995 , 15, 69-78	8.6	17
304	Thermodynamic Interactions in Binary Mixtures of 2-Methoxyethanol with Alkyl and Aryl Esters at 298.15, 303.15 and 308.15 K. <i>Collection of Czechoslovak Chemical Communications</i> , 1993 , 58, 1761-1776		17
303	Sorption, desorption, resorption, redesorption, and diffusion of haloalkanes into polymeric blend of ethylene-propylene random copolymer and isotactic polypropylene. <i>Journal of Applied Polymer Science</i> , 1995 , 57, 1419-1428	2.9	17
302	Enhanced Environmental Degradation of Plastics. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 1981 , 21, 89-133		17
301	Impact of scale, activation solvents, and aged conditions on gas adsorption properties of UiO-66. <i>Journal of Environmental Management</i> , 2020 , 274, 111155	7.9	17
300	Production of chitosan-based hydrogels for biomedical applications 2017 , 295-319		16
299	Nanocomposite Membranes of Poly(Vinyl Alcohol) Loaded with Polyaniline-Coated TiO ₂ and TiO ₂ Nanoparticles for the Pervaporation Dehydration of Aqueous Mixtures of 1,4-Dioxane and Tetrahydrofuran. <i>Designed Monomers and Polymers</i> , 2010 , 13, 497-508	3.1	16
298	A Novel Method to Prepare 5-Fluorouracil, an Anti-cancer Drug, Loaded Microspheres from Poly(N-vinyl caprolactam-co-acrylamide) and Controlled Release Studies. <i>Designed Monomers and Polymers</i> , 2010 , 13, 325-336	3.1	16
297	Sorption/desorption and diffusion kinetics of ketones and nitriles into fluoropolymer membranes. <i>Journal of Applied Polymer Science</i> , 1997 , 65, 635-647	2.9	16
296	Synthesis and characterization of moisture-cured polyurethane membranes and their applications in pervaporation separation of ethyl acetate/water azeotrope at 30°C. <i>Journal of Applied Polymer Science</i> , 2007 , 103, 3405-3414	2.9	16

295	Novel sodium alginate/polyethyleneimine polyion complex membranes for pervaporation dehydration at the azeotropic composition of various alcohols. <i>Journal of Chemical Technology and Biotechnology</i> , 2007 , 82, 993-1003	3.5	16
294	Solution and solid-state blend compatibility of poly(vinyl alcohol) and poly(methyl methacrylate). <i>Journal of Applied Polymer Science</i> , 2006 , 100, 2415-2421	2.9	16
293	Degradation profiles of polyesterurethane (hydroxylated polyester/diphenylmethane diisocyanate) and polyestermelamine (hydroxylated polyester/hexamethoxymethylmelamine) coatings: An accelerated weathering study. <i>Journal of Applied Polymer Science</i> , 2005 , 97, 1069-1081	2.9	16
292	Sorption and diffusion of n-alkanes into bromobutyl rubber membranes. <i>Polymer International</i> , 1995 , 36, 353-363	3.3	16
291	Swelling characteristics of polymer membranes in the presence of aromatic hydrocarbon liquids. <i>Journal of Applied Polymer Science</i> , 1992 , 44, 1687-1694	2.9	16
290	Sorption and Diffusion of Monocyclic Aromatic Compounds Through Polyurethane Membranes. <i>ACS Symposium Series</i> , 1990 , 351-376	0.4	16
289	Predicting refractive index and density increments of binary solvent mixtures. <i>Journal of Chemical & Engineering Data</i> , 1987 , 32, 406-409	2.8	16
288	Adsorption behavior of powdered activated carbon to control capacitive deionization fouling of organic matter. <i>Chemical Engineering Journal</i> , 2020 , 384, 123277	14.7	16
287	Identification and removal of micro- and nano-plastics: Efficient and cost-effective methods. <i>Chemical Engineering Journal</i> , 2021 , 421, 129816-129816	14.7	16
286	Design, synthesis of quinolinyl Schiff bases and azetidinones as enoyl ACP-reductase inhibitors. <i>Medicinal Chemistry Research</i> , 2015 , 24, 3892-3911	2.2	15
285	Synthesis, biological evaluation and in silico molecular modeling of pyrrolyl benzohydrazide derivatives as enoyl ACP reductase inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2017 , 126, 286-297	6.8	15
284	Copolymerization of N-vinyl pyrrolidone with functionalized vinyl monomers: Synthesis, characterization and reactivity relationships. <i>Macromolecular Research</i> , 2009 , 17, 1003-1009	1.9	15
283	A study on Fe ₂ O ₃ loaded poly(methyl methacrylate) nanocomposites. <i>Journal of Applied Polymer Science</i> , 2004 , 94, 2551-2554	2.9	15
282	Sorption/diffusion of aqueous mixtures of 1,4-dioxane/tetrahydrofuran through blend membranes of poly(vinyl alcohol) and sodium alginate: Their compatibility and pervaporation separation studies. <i>Journal of Applied Polymer Science</i> , 2005 , 98, 178-188	2.9	15
281	Urea-formaldehyde nanocapsules for the controlled release of diclofenac sodium. <i>Journal of Microencapsulation</i> , 2000 , 17, 449-58	3.4	15
280	Molecular migration of low sorbing organic liquids into polymeric geomembranes. <i>Polymer International</i> , 1999 , 48, 373-381	3.3	15
279	Predicting water diffusivity in elastomers. <i>Polymer Engineering and Science</i> , 1984 , 24, 1417-1420	2.3	15
278	Excess volume and excess polarizability during mixing of binary solvents. <i>Journal of Chemical & Engineering Data</i> , 1982 , 27, 50-53	2.8	15

277	Photocatalytic carbon dioxide reduction: Exploring the role of ultrathin 2D graphitic carbon nitride (g-C ₃ N ₄). <i>Chemical Engineering Journal</i> , 2021 , 425, 131402	14.7	15
276	Discovery of target based novel pyrrolyl phenoxy derivatives as antimycobacterial agents: an in silico approach. <i>European Journal of Medicinal Chemistry</i> , 2015 , 94, 317-39	6.8	14
275	Sodium alginate in drug delivery and biomedical areas 2019 , 59-100		14
274	Cytotoxicity and antitumour activity of 5-fluorouracil-loaded polyhydroxybutyrate and cellulose acetate phthalate blend microspheres. <i>Journal of Microencapsulation</i> , 2013 , 30, 356-68	3.4	14
273	Effect of coexcipients on drug release and floating property of nifedipine hollow microspheres: A novel gastro retentive drug delivery system. <i>Journal of Applied Polymer Science</i> , 2006 , 100, 486-494	2.9	14
272	Molecular transport of n-alkanes into PU/PBMA interpenetrating polymer network systems. <i>Journal of Applied Polymer Science</i> , 2003 , 90, 739-746	2.9	14
271	Cellulose acetate microspheres prepared by o/w emulsification and solvent evaporation method. <i>Journal of Microencapsulation</i> , 2001 , 18, 811-7	3.4	14
270	Investigation of the molecular transport of aliphatic and aromatic esters into engineering polymer membranes. <i>Polymer International</i> , 1994 , 34, 59-72	3.3	14
269	Synthesis and characterization of biologically active organosilicon and organotin complexes of phenylglycyl hydrazones. <i>Inorganica Chimica Acta</i> , 1987 , 135, 139-143	2.7	14
268	Hydrogen production technologies - Membrane based separation, storage and challenges. <i>Journal of Environmental Management</i> , 2022 , 302, 113963	7.9	14
267	Adsorption of 4-chlorophenol by magnetized activated carbon from pomegranate husk using dual stage chemical activation. <i>Chemosphere</i> , 2021 , 270, 128623	8.4	14
266	Monodispersed core/shell nanospheres of ZnS/NiO with enhanced H ₂ generation and quantum efficiency at versatile photocatalytic conditions. <i>Journal of Hazardous Materials</i> , 2021 , 413, 125359	12.8	14
265	A new insight into catalytic ozonation of sulfasalazine antibiotic by plasma-treated limonite nanostructures: Experimental, modeling and mechanism. <i>Chemical Engineering Journal</i> , 2022 , 428, 131230	14.7	14
264	Pervaporation separation of water/isopropanol mixtures using silicotungstic acid loaded sulfonated poly(ether ether ketone) composite membranes. <i>RSC Advances</i> , 2014 , 4, 52571-52582	3.7	13
263	Hybrid composite membranes of sodium alginate for pervaporation dehydration of 1,4-dioxane and tetrahydrofuran. <i>Desalination and Water Treatment</i> , 2009 , 3, 11-20		13
262	Preparation and evaluation of novel blend microspheres of poly(lactic-co-glycolic) acid and pluronic F68/127 for controlled release of repaglinide. <i>Journal of Applied Polymer Science</i> , 2010 , 116, 366-372	2.9	13
261	Molecular migration of aromatic liquids into a commercial fluoroelastomeric membrane at 30, 40, and 50°C. <i>Journal of Applied Polymer Science</i> , 2003 , 90, 3100-3106	2.9	13
260	Sorption and transport of aqueous salt solution in polyurethane membrane at 25, 44, and 60°C. <i>Journal of Applied Polymer Science</i> , 1991 , 42, 1297-1306	2.9	13

- 259 Excess volumes of binary mixtures of anisole with bromobenzene, o-dichlorobenzene, o-chloroaniline and p-dioxane at 298.15, 303.15, 308.15 and 313.15 K. *Fluid Phase Equilibria*, **1990**, 60, 319-326 2.5 13
- 258 Measurement of Diffusion Coefficients of Polymer Solutions Using the Ultracentrifuge. *Macromolecules*, **1979**, 12, 1194-1196 5.5 13
- 257 Complexes of hydrazones with tellurium. *Inorganica Chimica Acta*, **1983**, 78, 107-111 2.7 13
- 256 UiO-66 metal-organic frameworks in water treatment: A critical review. *Progress in Materials Science*, **2021**, 125, 100904 42.2 13
- 255 Sustainable MXenes-based membranes for highly energy-efficient separations. *Renewable and Sustainable Energy Reviews*, **2021**, 143, 110878 16.2 13
- 254 In vitro and in vivo assessment of novel pH-sensitive interpenetrating polymer networks of a graft copolymer for gastro-protective delivery of ketoprofen. *RSC Advances*, **2016**, 6, 64344-64356 3.7 13
- 253 Synthesis, evaluation and in silico molecular modeling of pyrrolyl-1,3,4-thiadiazole inhibitors of InhA. *Bioorganic Chemistry*, **2015**, 59, 151-67 5.1 12
- 252 In vitro cytotoxicity and in vivo efficacy of 5-fluorouracil-loaded enteric-coated PEG-cross-linked chitosan microspheres in colorectal cancer therapy in rats. *Drug Delivery*, **2016**, 23, 2838-2851 7 12
- 251 Proton conducting properties of nanocomposite membranes of chitosan. *Chemical Engineering Journal*, **2012**, 189-190, 1-4 14.7 12
- 250 Chitosan/Gelatin Blend Membranes for Pervaporation Dehydration of 1,4-Dioxane. *Separation Science and Technology*, **2009**, 44, 3202-3223 2.5 12
- 249 Degradation of chitosan and chemically modified chitosan by viscosity measurements. *Journal of Applied Polymer Science*, **2006**, 102, 3255-3258 2.9 12
- 248 Degradation profiles of polyester-urethane (HP-MDI) and polyester-melamine (HP-HMMM) coatings: A thermal study. *Journal of Applied Polymer Science*, **2005**, 97, 518-526 2.9 12
- 247 Phase behavior and molecular mobility in polyurethane/styrene-acrylonitrile blends. *Journal of Applied Polymer Science*, **2001**, 80, 1071-1084 2.9 12
- 246 Diffusion and Sorption of Organic Liquids Through Polymer Membranes. III. Polyurethane, Neoprene, SBR, EPDM, NBR, and Natural Rubber Versus Cyclic Compounds, Esters, and Hydrocarbons. *Polymer-Plastics Technology and Engineering*, **1991**, 30, 453-472 12
- 245 Molecular Transport of Gases, Vapors, and Salt Solutions Through Polymer Membranes. *Polymer-Plastics Technology and Engineering*, **1989**, 28, 567-599 12
- 244 MOLECULAR TRANSPORT OF OXYGEN AND NITROGEN THROUGH POLYMER FILMS. *Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics*, **1991**, 31, 117-163 12
- 243 Tellurium complexes with substituted chalcones. *Inorganica Chimica Acta*, **1983**, 70, 175-178 2.7 12
- 242 Photocatalytic hydrogen production from dye contaminated water and electrochemical supercapacitors using carbon nanohorns and TiO nanoflower heterogeneous catalysts. *Journal of Environmental Management*, **2021**, 277, 111433 7.9 12

241	Pharmaceutical Applications of Various Natural Gums 2015 , 1933-1967		11
240	Synthesis and molecular modeling studies of novel pyrrole analogs as antimycobacterial agents. <i>Journal of Saudi Chemical Society</i> , 2017 , 21, 42-57	4.3	11
239	Transport characteristics of fluoroelastomers by ketones and nitriles. <i>Polymer</i> , 1997 , 38, 2725-2731	3.9	11
238	An investigation of the long-term sorption kinetics and diffusion anomalies of chloroalkanes into tetrafluoroethylene/propylene copolymer membranes at 30, 45 and 60°C. <i>Polymer</i> , 1998 , 39, 1067-1074	3.9	11
237	Sodium alginate-TiO ₂ mixed matrix membranes for pervaporation dehydration of tetrahydrofuran and isopropanol. <i>Designed Monomers and Polymers</i> , 2007 , 10, 297-309	3.1	11
236	Rheological investigations on the dispersions of sodium alginate and guar gum mixtures at different temperatures. <i>Polymer-Plastics Technology and Engineering</i> , 2002 , 41, 469-488		11
235	Chemical Compatibility Testing of Linear Low Density Polyethylene Geomembrane. <i>Journal of Polymer Engineering</i> , 1999 , 19,	1.4	11
234	Molecular migration of hazardous liquids into thermoplastic ethylene-propylene random copolymer and isotactic polypropylene membranes. <i>Journal of Hazardous Materials</i> , 1996 , 49, 125-141	12.8	11
233	Interaction of some highly aggressive solvents and effect of temperature on the transport characteristics of polyurethane. <i>Journal of Applied Polymer Science</i> , 1990 , 41, 2113-2131	2.9	11
232	Water Permeation through Elastomer Laminates I. Neoprene/EPDM. <i>Rubber Chemistry and Technology</i> , 1983 , 56, 357-366	1.7	11
231	Biologically active bimetallic complexes formed from acetylacetonates of copper, cobalt and nickel. <i>Inorganica Chimica Acta</i> , 1984 , 92, 99-105	2.7	11
230	Remediation of per- and polyfluoroalkyls (PFAS) via electrochemical methods. <i>Chemical Engineering Journal</i> , 2022 , 430, 132895	14.7	11
229	Photocatalytic hydrogen production by ternary heterojunction composites of silver nanoparticles doped FCNT-TiO. <i>Journal of Environmental Management</i> , 2021 , 286, 112130	7.9	11
228	A review on multicomponent reactions catalysed by zero-dimensional/one-dimensional titanium dioxide (TiO) nanomaterials: Promising green methodologies in organic chemistry. <i>Journal of Environmental Management</i> , 2021 , 279, 111603	7.9	11
227	Pharmacophore mapping, molecular docking, chemical synthesis of some novel pyrrolyl benzamide derivatives and evaluation of their inhibitory activity against enoyl-ACP reductase (InhA) and Mycobacterium tuberculosis. <i>Bioorganic Chemistry</i> , 2018 , 81, 440-453	5.1	11
226	Nanostructured materials via green sonochemical routes - Sustainability aspects. <i>Chemosphere</i> , 2021 , 276, 130146	8.4	11
225	In-vitro evaluation of antioxidant and anticholinesterase activities of novel pyridine, quinoxaline and s-triazine derivatives. <i>Environmental Research</i> , 2021 , 199, 111320	7.9	11
224	Microspheres of Gelatin and Poly(ethylene glycol) Coated with Ethyl Cellulose for Controlled Release of Metronidazole. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 6575-6584	3.9	10

223	Novel pH-sensitive blend microspheres for controlled release of nifedipine--an antihypertensive drug. <i>International Journal of Biological Macromolecules</i> , 2015 , 75, 505-14	7.9	10
222	A review on the sustained release of cardiovascular drugs through hydroxypropyl methylcellulose and sodium carboxymethylcellulose polymers. <i>Designed Monomers and Polymers</i> , 1998 , 1, 347-372	3.1	10
221	Solubility Study of Azadirachta indica A. Juss. (Neem) Seed Oil in the Presence of Cosolvent/Nonionic Surfactant at (298.15, 303.15, 308.15, and 313.15) K. <i>Journal of Chemical & Engineering Data</i> , 1999 , 44, 836-838	2.8	10
220	Densities, Refractive Indices, Speeds of Sound and Shear Viscosities of Diethylene Glycol Dimethyl Ether Methyl Salicylate at Temperatures from 298.15 to 318.15 K. <i>Collection of Czechoslovak Chemical Communications</i> , 1994 , 59, 1511-1524		10
219	Diffusion and Sorption of Organic Liquids Through Polymer Membranes. IV. Neoprene, SBR, EPDM, NBR, and Natural Rubber Versus Chloro compounds. <i>Polymer-Plastics Technology and Engineering</i> , 1991 , 30, 529-543		10
218	Densities and viscosities of binary and ternary liquid mixtures at 25 °C. <i>Canadian Journal of Chemistry</i> , 1991 , 69, 1028-1032	0.9	10
217	Water permeation through elastomer laminates. IV. NBR/EPDM. <i>Journal of Applied Polymer Science</i> , 1986 , 32, 3719-3723	2.9	10
216	Thiopicolinamide complexes of selenium and tellurium: A structural and pharmacological study. <i>Inorganica Chimica Acta</i> , 1983 , 78, 51-55	2.7	10
215	Aromatic imine complexes of selenium and tellurium. <i>Inorganica Chimica Acta</i> , 1983 , 69, 83-87	2.7	10
214	Integrated biorefinery processes for conversion of lignocellulosic biomass to value added materials: Paving a path towards circular economy. <i>Bioresource Technology</i> , 2022 , 343, 126151	11	10
213	Treatment technologies for pharmaceutical effluents-A scientometric study. <i>Journal of Environmental Management</i> , 2020 , 254, 109800	7.9	10
212	Forward osmosis for industrial effluents treatment Sustainability considerations. <i>Separation and Purification Technology</i> , 2021 , 254, 117568	8.3	10
211	Metal chalcogenide-based core/shell photocatalysts for solar hydrogen production: Recent advances, properties and technology challenges. <i>Journal of Hazardous Materials</i> , 2021 , 415, 125588	12.8	10
210	Polysaccharide-Based Hydrogels as Biomaterials. <i>Springer Series on Polymer and Composite Materials</i> , 2016 , 45-71	0.9	9
209	Blend microspheres of chitosan and polyurethane for controlled release of water-soluble antihypertensive drugs. <i>Polymer Bulletin</i> , 2015 , 72, 265-280	2.4	9
208	Hyperbranched polyurethane-urea-imide/o-clay-silica hybrids: Synthesis and characterization. <i>Journal of Applied Polymer Science</i> , 2012 , 125, E67	2.9	9
207	Sorption and Diffusion of Organic Liquids into Fluoroelastomer Membranes. <i>Separation Science and Technology</i> , 1997 , 32, 2321-2334	2.5	9
206	N-vinylpyrrolidone and 4-vinyl Benzylchloride Copolymers: Synthesis, Characterization and Reactivity Ratios. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2008 , 45, 821-827	2.2	9

205	Aqueous-solution and solid-film properties of poly(vinyl alcohol), poly(vinyl pyrrolidone), gelatin, starch, and carboxymethylcellulose polymers. <i>Journal of Applied Polymer Science</i> , 2007 , 106, 765-774	2.9	9
204	Chemical Compatibility of Geomembranes-Sorption, Diffusion and Swelling Phenomena. <i>Journal of Plastic Film and Sheeting</i> , 1999 , 15, 47-56	2.4	9
203	Molecular migration of some industrial solvents into fluoropolymer membranes. <i>Waste Management</i> , 1996 , 16, 277-287	8.6	9
202	Molecular transport of organic esters and ketones into fluoropolymer membranes. <i>Canadian Journal of Chemical Engineering</i> , 1994 , 72, 1047-1054	2.3	9
201	Solidification/stabilization study for the disposal of pentachlorophenol. <i>Journal of Hazardous Materials</i> , 1992 , 30, 317-331	12.8	9
200	Photomicroelectrochemical detoxification of hazardous materials. <i>Journal of Hazardous Materials</i> , 1993 , 33, 369-400	12.8	9
199	Liquid diffusion into epoxy resin composites. <i>Journal of Applied Polymer Science</i> , 1988 , 35, 1251-1256	2.9	9
198	Binuclear complexes of silicon(IV) chloride with nickel(II) salicylaldehydes. <i>Polyhedron</i> , 1984 , 3, 603-606.7		9
197	Studies on physico-mechanical properties of some new light weight engineering materials. <i>Polymer Engineering and Science</i> , 1981 , 21, 1085-1091	2.3	9
196	Physicomechanical properties of epoxidized composite materials from industrial wastes. <i>Materials Science and Engineering</i> , 1981 , 48, 199-206		9
195	Versatile fullerenes as sensor materials. <i>Materials Today Chemistry</i> , 2021 , 20, 100454	6.2	9
194	Advanced oxidation of 4-chlorophenol via combined pulsed light and sulfate radicals methods: Effect of co-existing anions. <i>Journal of Environmental Management</i> , 2021 , 291, 112595	7.9	9
193	Azo dye containing wastewater treatment in earthen membrane based unplanted two chambered constructed wetlands-microbial fuel cells: A new design for enhanced performance. <i>Chemical Engineering Journal</i> , 2022 , 427, 131856	14.7	9
192	Acclimatized activated sludge for enhanced phenolic wastewater treatment using pinewood biochar. <i>Chemical Engineering Journal</i> , 2022 , 427, 131708	14.7	9
191	Recent trends in functionalized nanoparticles loaded polymeric composites: An energy application. <i>Materials Science for Energy Technologies</i> , 2020 , 3, 515-525	5.2	8
190	Optimization of kraft black liquor treatment using ultrasonically synthesized mesoporous tenorite nanomaterials assisted by Taguchi design. <i>Chemical Engineering Journal</i> , 2020 , 401, 126040	14.7	8
189	Retention of atenolol from single and binary aqueous solutions by thin film composite nanofiltration membrane: Transport modeling and pore radius estimation. <i>Journal of Environmental Management</i> , 2020 , 271, 111005	7.9	8
188	Microspheres of copolymeric N-vinylpyrrolidone and 2-ethoxyethyl methacrylate for the controlled release of nifedipine. <i>Journal of Polymer Research</i> , 2011 , 18, 359-366	2.7	8

187	Novel thermo-responsive semi-interpenetrating network microspheres of gellan gum-poly(N-isopropylacrylamide) for controlled release of atenolol. <i>Journal of Applied Polymer Science</i> , 2010 , 116, NA-NA	2.9	8
186	Effect of carbon black loading on fluoroelastomer-solvent interactions. <i>Journal of Applied Polymer Science</i> , 1998 , 68, 815-825	2.9	8
185	Novel Poly(vinyl alcohol)-tetraethoxysilane hybrid matrix membranes as oxygen barriers. <i>Journal of Applied Polymer Science</i> , 2007 , 104, 273-278	2.9	8
184	Molecular transport of esters, aldehydes, aromatic liquids, and a ketone into fluoroelastomer membrane at 30, 40, and 50°C. <i>Journal of Applied Polymer Science</i> , 2003 , 88, 840-847	2.9	8
183	Sorption/desorption studies on polypropylene geomembrane in the presence of hazardous organic liquids. <i>Journal of Applied Polymer Science</i> , 1999 , 72, 1291-1298	2.9	8
182	Molecular transport characteristics of a chlorosulfonated polyethylene geomembrane in the presence of aromatic esters. <i>Journal of Chemical Technology and Biotechnology</i> , 1995 , 63, 69-77	3.5	8
181	Kinetic study of the ruthenium catalysed oxidation of styrene and substituted styrenes. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996 , 92, 3643		8
180	Selective Transport of Oxygen Through Polymer Films—A Review of Literature on Patents. <i>Polymer-Plastics Technology and Engineering</i> , 1991 , 30, 299-342		8
179	Polarizability and molecular radius of bromoform and hydrocarbon liquids. <i>Fluid Phase Equilibria</i> , 1992 , 72, 211-226	2.5	8
178	Studies on polymer impregnated composites. <i>Polymer Composites</i> , 1981 , 2, 171-178	3	8
177	Single precursor sonochemical synthesis of mesoporous hexagonal-shape zero-valent copper for effective nitrate reduction. <i>Chemical Engineering Journal</i> , 2020 , 384, 123359	14.7	8
176	Enhanced removal of humic acid from aqueous solution by combined alternating current electrocoagulation and sulfate radical. <i>Environmental Pollution</i> , 2021 , 277, 116632	9.3	8
175	Artificial intelligence as a sustainable tool in wastewater treatment using membrane bioreactors. <i>Chemical Engineering Journal</i> , 2021 , 417, 128070	14.7	8
174	Interrelation between sulphur and conductive materials and its impact on ammonium and organic pollutants removal in electroactive wetlands. <i>Journal of Hazardous Materials</i> , 2021 , 419, 126417	12.8	8
173	Nanostructured graphitic carbon nitride (g-CN)-CTAB modified electrode for the highly sensitive detection of amino-triazole and linuron herbicides. <i>Environmental Research</i> , 2022 , 204, 111856	7.9	8
172	Recent developments in ionic liquid-based electrolytes for energy storage supercapacitors and rechargeable batteries 2020 , 199-221		7
171	Design and development of pyrrole carbaldehyde: an effective pharmacophore for enoyl-ACP reductase. <i>Medicinal Chemistry Research</i> , 2016 , 25, 672-689	2.2	7
170	Pharmaceutical Applications of Various Natural Gums 2014 , 1-30		7

169	The role of nanotechnology and chitosan-based biomaterials for tissue engineering and therapeutic delivery 2017 , 1-29		7
168	Controlled release of 5-fluorouracil from biomedical polyurethanes. <i>Journal of Chemical Sciences</i> , 2010 , 122, 209-216	1.8	7
167	Diffusion and Sorption of Organic Ketones and Nitriles into Tetrafluoroethylene/Propylene Copolymeric Membranes. <i>Journal of Polymer Engineering</i> , 1996 , 16,	1.4	7
166	Sorption and diffusion of organic liquids into engineering fluoroelastomer membranes in the temperature interval 30-80 °C. <i>Chemical Engineering and Processing: Process Intensification</i> , 1997 , 36, 363-370	3.7	7
165	Sorption and migration of aliphatic organic esters into VITON® fluoroelastomer membranes. <i>Journal of Applied Polymer Science</i> , 1997 , 63, 1223-1235	2.9	7
164	Preparation and characterization of novel semi-interpenetrating 2-hydroxyethyl methacrylate-g-chitosan copolymeric microspheres for sustained release of indomethacin. <i>Journal of Applied Polymer Science</i> , 2007 , 106, 3778-3785	2.9	7
163	Synthesis and characterization of methoxypolyethyleneglycol and lauric acid grafted novel polyurethanes for controlled release of nifedipine. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 2155-2163	2.9	7
162	Appropriate use of Fick's equation to compute diffusion coefficients in pervaporation experiments. <i>Journal of Applied Polymer Science</i> , 2004 , 92, 2740-2741	2.9	7
161	Sorption, diffusion, and swelling characteristics of sodium alginate and its blend membranes with poly(vinyl alcohol) in water/acetic acid mixtures. <i>Journal of Applied Polymer Science</i> , 2004 , 94, 1139-1150	2.9	7
160	A new analytical method to calculate intrinsic viscosity and viscosity constants of polymer/solvent systems. <i>Journal of Applied Polymer Science</i> , 2002 , 83, 283-290	2.9	7
159	Sorption and Diffusion Kinetics of Binary Organic Mixtures of Bis(2-methoxyethyl) Ether with Organic Esters into Tetrafluoroethylene + Propylene Copolymer Membranes at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 1996 , 41, 813-818	2.8	7
158	Diffusion of organic solvents into polyurethane network from swelling measurements. <i>Journal of Applied Polymer Science</i> , 1991 , 42, 3267-3270	2.9	7
157	Diffusion and Sorption of Organic Liquids Through Polymer Membranes. IX. Bromobutyl Rubber, Chlorosulfonated Polyethylene, and Epichlorohydrin Versus Substituted Monocyclic Aromatic Liquids. <i>Polymer-Plastics Technology and Engineering</i> , 1992 , 31, 571-588		7
156	Molecular Transport of Organic Esters Into Fluoropolymer Membranes. <i>Polymer-Plastics Technology and Engineering</i> , 1992 , 31, 853-869		7
155	Molecular transport of methyl- and methoxy-substituted benzenes into bromobutyl rubber, chlorosulfonated polyethylene and epichlorohydrin membranes. <i>Polymer</i> , 1993 , 34, 4280-4286	3.9	7
154	Water permeation through elastomer laminates: 3. Neoprene/styrene-butadiene rubber. <i>Polymer</i> , 1986 , 27, 1396-1399	3.9	7
153	Oxovanadium complexes with substituted chalcone oximates. <i>Inorganica Chimica Acta</i> , 1986 , 118, L17-L19		7
152	A simple theory to predict small changes in volume and refractivity during mixing of a two-component liquid system. <i>Journal of Chemical Education</i> , 1983 , 60, 117	2.4	7

151	Valorisation of lignocellulosic biomass to value-added products: Paving the pathway towards low-carbon footprint. <i>Fuel</i> , 2022 , 313, 122678	7.1	7
150	Synergetic degradation of atenolol by hydrodynamic cavitation coupled with sodium persulfate as zero-waste discharge process: Effect of coexisting anions. <i>Chemical Engineering Journal</i> , 2021 , 416, 129163	14.7	7
149	The role of ferric coagulant on gypsum scaling and ion interception efficiency in nanofiltration at different pH values: Performance and mechanism. <i>Water Research</i> , 2020 , 175, 115695	12.5	6
148	Cellulose acetate butyrate bilayer coated microspheres for controlled release of ciprofloxacin. <i>Polymer Bulletin</i> , 2018 , 75, 1329-1348	2.4	6
147	3D-QSAR and molecular docking studies of 1,3,4-oxadiazoles containing substituted phenoxy fragment as inhibitors of enoyl-acyl carrier protein reductase from <i>Escherichia coli</i> . <i>Medicinal Chemistry Research</i> , 2014 , 23, 4542-4558	2.2	6
146	Formulation and in vitro evaluation of transdermal delivery of zidovudine—An anti-HIV drug. <i>Journal of Applied Polymer Science</i> , 2011 , 119, 1268-1274	2.9	6
145	Plastic Scintillating Materials in Nuclear Medical Imaging. <i>Polymer-Plastics Technology and Engineering</i> , 1997 , 36, 1-51		6
144	Solvent resistivity testing of fluoroelastomers using a gravimetric sorption method. <i>Polymer Testing</i> , 1997 , 16, 91-102	4.5	6
143	Theoretical and experimental investigations of molecular migration and diffusion kinetics of organic esters into tetrafluoroethylene/propylene copolymer membranes. <i>Canadian Journal of Chemical Engineering</i> , 1998 , 76, 104-112	2.3	6
142	Synthesis, characterization, and evaluation of copolymers based on N-isopropylacrylamide and 2-ethoxyethyl methacrylate for the controlled release of felodipine. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 2211-2217	2.9	6
141	Viscosity behavior of hydroxylated and acetoacetylated polyesters. <i>Journal of Applied Polymer Science</i> , 2006 , 100, 2422-2435	2.9	6
140	Synthesis, characterization and controlled release characteristics of PEGylated hydrogels for diclofenac sodium. <i>Designed Monomers and Polymers</i> , 2006 , 9, 261-273	3.1	6
139	Experimental and simulation studies on molecular transport of substituted monocyclic aromatic liquids into fluoropolymer sheet membranes: Liquid structure—diffusion, sorption, and permeation relationships. <i>Journal of Applied Polymer Science</i> , 2004 , 92, 991-996	2.9	6
138	An assessment of solubility profiles of structurally similar hazardous pesticide in water + methanol mixture and co-solvent effect on partition coefficient. <i>Journal of Hazardous Materials</i> , 2002 , 89, 233-9	12.8	6
137	Miscibility of chitosan—hydroxyethylcellulose blends in aqueous acetic acid solutions at 35°C. <i>Journal of Applied Polymer Science</i> , 2005 , 96, 1996-1998	2.9	6
136	Gas—liquid chromatographic study of polystyrene—alkane interactions. <i>Journal of Applied Polymer Science</i> , 2001 , 80, 1291-1298	2.9	6
135	Ultrasonic and refractometric studies on polystyrene in 1,4-dioxane + tetrahydrofuran mixtures at 25°C. <i>European Polymer Journal</i> , 2001 , 37, 1133-1138	5.2	6
134	RHEOLOGICAL PROPERTIES OF THE DISPERSIONS OF STARCH, GUAR GUM, AND THEIR PHYSICAL MIXTURES IN THE TEMPERATURE INTERVAL 298.15–33.15 K. <i>Polymer-Plastics Technology and Engineering</i> , 2000 , 39, 437-456		6

- 133 Synthesis and Characterization of New Diisocyanate-Based Polyurethane Cationomers. *Polymer-Plastics Technology and Engineering*, **1993**, 32, 501-510 6
- 132 Molecular transport of organic esters into tetrafluoroethylene/propylene copolymer membranes. *Journal of Applied Polymer Science*, **1994**, 53, 1795-1803 2.9 6
- 131 2-Aminobenzoyl hydrazone uranium(IV) diacetate complexes. *Inorganica Chimica Acta*, **1986**, 121, L45-L46.7 6
- 130 Polymerized Lightweight Fibrous Composites. *Journal of Macromolecular Science Part A, Chemistry*, **1983**, 20, 515-525 6
- 129 Gram-scale synthesis of ZnS/NiO core-shell hierarchical nanostructures and their enhanced H₂ production in crude glycerol and sulphide wastewater. *Environmental Research*, **2021**, 199, 111323 7.9 6
- 128 Novel blend microspheres of poly(3-hydroxybutyrate) and Pluronic F68/127 for controlled release of 6-mercaptopurine. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a 2.9 5
- 127 Computation of density of perfluoroalkyl methacrylates: a molecular modeling approach. *Theoretical Chemistry Accounts*, **2006**, 117, 167-169 1.9 5
- 126 Synthesis and characterization of some organopolyphosphazenes and their controlled-release characteristics. *Designed Monomers and Polymers*, **2007**, 10, 235-251 3.1 5
- 125 Preparation and characterization of atenolol-loaded cellulose acetate butyrate-poly(vinyl pyrrolidone) blend microspheres: in vitro release studies. *Designed Monomers and Polymers*, **2007**, 10, 155-165 3.1 5
- 124 Column: Polymeric Membranes. *Polymer News*, **2004**, 29, 193-195 5
- 123 Laser dye diffusion in polymer solutions studied by spectrophotometry. *Journal of Applied Polymer Science*, **2004**, 93, 1157-1165 2.9 5
- 122 A novel spectrophotometric method to measure the diffusion coefficient of aniline in benzene at 298.15 K. *Journal of Molecular Liquids*, **2005**, 116, 51-54 6 5
- 121 Effect of Cosolvent and Nonionic Surfactant on Partition Coefficient of Azadirachta Indica A. Juss. (Neem) Seed Oil in Water-Hexane at (298.15, 303.15, 308.15, and 313.15) K. *Journal of Chemical & Engineering Data*, **2000**, 45, 75-77 2.8 5
- 120 Sorption, Diffusion, and Permeation Coefficients of Benzene, Substituted Benzenes, and Bis(2-methoxyethyl) Ether into Tetrafluoroethylene-Propylene Copolymeric Sheets in the Temperature Range from 298.15 to 343.15 K. *Journal of Chemical & Engineering Data*, **1994**, 39, 517-521 2.8 5
- 119 Flammability Characteristics of Polymers. *Polymer-Plastics Technology and Engineering*, **1989**, 28, 717-751 5
- 118 A study on excess functions and thermodynamic parameters of some bromoform- containing binary mixtures. *Canadian Journal of Chemistry*, **1990**, 68, 251-257 0.9 5
- 117 Water Permeation through Elastomer Laminates, II. SBR/EPDM. *Rubber Chemistry and Technology*, **1986**, 59, 779-786 1.7 5
- 116 Versatile Lightweight Polymer Composites. *Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics*, **1987**, 27, 459-503 5

115	Hexacoordinated complexes of antimony(V). <i>Inorganica Chimica Acta</i> , 1984 , 88, 41-44	2.7	5
114	Investigations of New Lightweight Polymer Composites. <i>Journal of Macromolecular Science Part A, Chemistry</i> , 1984 , 21, 127-132		5
113	Environmental management of industrial decarbonization with focus on chemical sectors: A review. <i>Journal of Environmental Management</i> , 2022 , 302, 114055	7.9	5
112	Graphene/g-carbon nitride (GO/g-CN) nanohybrids as a sensor material for the detection of methyl parathion and carbendazim.. <i>Chemosphere</i> , 2021 , 292, 133450	8.4	5
111	Drug Resistance of Antitubercular Agents at the Genetic Level in Mycobacterium Species: A Road Map to Drug Development for Counteracting the Resistance. <i>Mini-Reviews in Organic Chemistry</i> , 2016 , 13, 262-280	1.7	5
110	Synthesis of ruthenium doped titanium dioxide nanoparticles for the electrochemical detection of diclofenac sodium. <i>Journal of Molecular Liquids</i> , 2021 , 340, 116891	6	5
109	Spray drying technique to produce controlled release formulations of zidovudine in anti-HIV drug. <i>Journal of Applied Polymer Science</i> , 2011 , 122, 2244-2251	2.9	4
108	Synthesis and characterization of coumarin-substituted polyorganophosphazene. <i>Designed Monomers and Polymers</i> , 2006 , 9, 517-526	3.1	4
107	Blend compatibility studies of polystyrene/poly(methyl methacrylate) and polystyrene/styrene-acrylonitrile by densitometry, viscometry, refractometry, ultraviolet absorbance, and fluorescence techniques at 30°C. <i>Journal of Applied Polymer Science</i> , 2004 , 94, 2548-2550	2.9	4
106	Some physicochemical measurements of chitosan polymer in acetic acid-water mixtures at different temperatures. <i>Journal of Applied Polymer Science</i> , 2002 , 86, 526-529	2.9	4
105	SORPTION, DIFFUSION AND PERMEATION OF ESTERS INTO EPICHLOROHYDRIN ELASTOMER MEMBRANE. <i>Journal of Polymer Engineering</i> , 1995 , 14,	1.4	4
104	Sorption and Diffusion Profiles of Monocyclic Aromatic Liquids into Polymeric Blends of Ethylene-Propylene Random Copolymer and Isotactic Polypropylene*. <i>Polymer-Plastics Technology and Engineering</i> , 1996 , 35, 271-297		4
103	New routes to poly(benzylenebenzimidazoles). <i>Polymer</i> , 1986 , 27, 1131-1133	3.9	4
102	Geometrical Transformations around Nickel(II) with Silicon(IV) Tetrachloride. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 1984 , 14, 773-783		4
101	Spectral and pharmacological studies on organosilicon and organotin complexes of thiopicolinamides. <i>Inorganica Chimica Acta</i> , 1985 , 108, L31-L34	2.7	4
100	Ultracentrifuge as a Versatile Tool to Study Preferential Interaction of Polymers in Mixed Solvents. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 1982 , 22, 203-224		4
99	Nano-Enabled Drug Delivery in Cancer Therapy: Literature Analysis Using the MeSH System. <i>Pharmaceutical Nanotechnology</i> , 2016 , 4, 293-307	4	4
98	Drug delivery using interpenetrating polymeric networks of natural polymers: A recent update. <i>Journal of Drug Delivery Science and Technology</i> , 2021 , 66, 102915	4.5	4

97	Engineered nanomaterials in microbial fuel cells [Recent developments, sustainability aspects, and future outlook. <i>Fuel</i> , 2022 , 310, 122347	7.1	4
96	Column: Polymers in Drug Delivery. <i>Polymer News</i> , 2004 , 29, 214-218		4
95	Artificial intelligence modeling to predict transmembrane pressure in anaerobic membrane bioreactor-sequencing batch reactor during biohydrogen production. <i>Journal of Environmental Management</i> , 2021 , 292, 112759	7.9	4
94	Application of UV/chlorine processes for the DR83:1 degradation from wastewater: Effect of coexisting anions. <i>Journal of Environmental Management</i> , 2021 , 297, 113349	7.9	4
93	Anaerobic membrane bioreactor for the production of bioH ₂ : Electron flow, fouling modeling and kinetic study. <i>Chemical Engineering Journal</i> , 2021 , 426, 130716	14.7	4
92	Detection of ketorolac drug using pencil graphite electrode. <i>Biomedical Engineering Advances</i> , 2021 , 2, 100009		4
91	Photocatalytic conversion of CO ₂ into valuable products using emerging two-dimensional graphene-based nanomaterials: A step towards sustainability. <i>Chemical Engineering Journal</i> , 2021 , 425, 131401	14.7	4
90	Hf-Doped Tungsten Oxide Nanorods as Electrode Materials for Electrochemical Detection of Paracetamol and Salbutamol. <i>ACS Applied Nano Materials</i> , 2022 , 5, 1263-1275	5.6	4
89	Modern approaches in separation, identification and quantification of polychlorinated biphenyls. <i>Current Opinion in Environmental Science and Health</i> , 2020 , 18, 26-39	8.1	3
88	Controlled release of theophylline from interpenetrating blend microspheres of poly(vinyl alcohol) and methyl cellulose. <i>Journal of Applied Polymer Science</i> , 2009 , 116, NA-NA	2.9	3
87	Pore characteristics and electrochemical properties of the carbon nanofibres of polyacrylonitrile containing iron-oxide by electrospinning. <i>International Journal of Nanotechnology</i> , 2011 , 8, 868	1.5	3
86	Polymeric blend microspheres for controlled release of theophylline. <i>Journal of Applied Polymer Science</i> , 2010 , 117, NA-NA	2.9	3
85	A novel analytical method to estimate molar mass and virial coefficients of polymers from osmometry. <i>Polymer</i> , 1997 , 38, 6417-6420	3.9	3
84	Computer simulation method for calculating concentration profiles in polyurethane/polystyrene interpenetrating polymer network membranes. <i>Journal of Applied Polymer Science</i> , 2003 , 90, 122-128	2.9	3
83	Spectrophotometric investigation of laser dye diffusion in styrene-acrylonitrile copolymer solutions. <i>Journal of Applied Polymer Science</i> , 2005 , 95, 1481-1484	2.9	3
82	Polymerization kinetics of styrene using coordination catalysts containing rare earth compounds. <i>Journal of Applied Polymer Science</i> , 2001 , 80, 995-1002	2.9	3
81	Solvent Migration and Drying Phbnoubnon of Polymeric Blends of Ethylene-Propylbnnb Random Copolymbr and Isotactic Polypropylbnnb in the Prbsbncb of Monocyclic Aromatic Liquids at Tbwbraturbs Bbtukbn 25-70°C.. <i>Drying Technology</i> , 1995 , 13, 1841-1879	2.6	3
80	Resistivity and dimensional stability of high-performance engineering thermoplastic blend of ethylene-propylene random copolymer and isotactic polypropylene membrane in the presence of hazardous haloalkanes. <i>Journal of Hazardous Materials</i> , 1996 , 46, 71-88	12.8	3

79	Preferential Interactions on Polystyrene Divinylbenzene Copolymeric Sorbents. <i>Journal of Macromolecular Science Part A, Chemistry</i> , 1983 , 19, 1247-1253		3
78	Lightweight Polymer Composites from Waste Materials: A Solution to Environmental Pollution. <i>Journal of Macromolecular Science Part A, Chemistry</i> , 1984 , 21, 133-139		3
77	Selenium and tellurium complexes with 2-substituted benzimidazoles. <i>Inorganica Chimica Acta</i> , 1983 , 78, 47-50	2.7	3
76	Eco-friendly rice husk derived biochar as a highly efficient noble Metal-Free cocatalyst for high production of H ₂ using solar light irradiation. <i>Chemical Engineering Journal</i> , 2022 , 434, 134743	14.7	3
75	Novel edge-capped ZrO ₂ nanoparticles onto V ₂ O ₅ nanowires for efficient photosensitized reduction of chromium (Cr (VI)), photoelectrochemical solar water splitting, and electrochemical energy storage applications. <i>Chemical Engineering Journal</i> , 2022 , 430, 132988	14.7	3
74	Competitive adsorption of phenol and toluene onto silica-supported transition metal clusters for biofuel purification. <i>Molecular Systems Design and Engineering</i> ,	4.6	3
73	Molecular Docking and Three-Dimensional Quantitative Structure-Activity Relationships for Antitubercular Pyrimidine Derivatives. <i>Polycyclic Aromatic Compounds</i> , 1-14	1.3	3
72	Removal of hexavalent chromium via biochar-based adsorbents: State-of-the-art, challenges, and future perspectives. <i>Journal of Environmental Management</i> , 2022 , 317, 115356	7.9	3
71	Docking, CoMFA, and CoMSIA analyses of phenoxy triazole derivatives as enoyl-ACP reductase inhibitors for Escherichia coli. <i>Medicinal Chemistry Research</i> , 2014 , 23, 4932-4955	2.2	2
70	Chemical synthesis and in silico molecular modeling of novel pyrrolyl benzohydrazide derivatives: Their biological evaluation against enoyl ACP reductase (InhA) and Mycobacterium tuberculosis. <i>Bioorganic Chemistry</i> , 2017 , 75, 181-200	5.1	2
69	Polysaccharide-Based Hydrogels as Biomaterials in Drug Delivery. <i>Journal of Pharmaceutical Care & Health Systems</i> , 2015 , 02,	0	2
68	A Study of Sorption/Desorption and Diffusion of N-Alkanes and Aliphatic Hydrocarbons into Polymeric Blends of Ethylene-Propylene Random Copolymer and Isotactic Polypropylene in the Temperature Interval 25-70°C. <i>Journal of Polymer Engineering</i> , 1996 , 16,	1.4	2
67	Transport Kinetics and Diffusion of Monocyclic Aromatic Liquids in Polymeric Blends of Ethylene-Propylene Random Copolymer and Isotactic Polypropylene. <i>Polymer-Plastics Technology and Engineering</i> , 1997 , 36, 369-390		2
66	Blend Membranes of Sodium Alginate/Poly(Styrene Sulfonic Acid) for Isopropanol Dehydration. <i>Designed Monomers and Polymers</i> , 2008 , 11, 147-157	3.1	2
65	Energy transfer processes between primary and secondary dopants in polystyrene solutions dissolved in 1,4-dioxane. <i>Journal of Applied Polymer Science</i> , 2005 , 95, 336-341	2.9	2
64	Preparation and Evaluation of Polyurethane Foam/Rubber Membrane-Based Samplers for use in Isocyanate Sampling. <i>Polymer-Plastics Technology and Engineering</i> , 1998 , 37, 103-113		2
63	A computer simulation method to calculate concentration profiles in polymeric membranes. <i>Journal of Applied Polymer Science</i> , 1999 , 73, 2051-2055	2.9	2
62	Gaseous Thermal Conductivity of Hydrogen Chloride, Hydrogen Bromide, Boron Trichloride, and Boron Trifluoride in the Temperature Range from 55 to 380 .degree.C. <i>Journal of Chemical & Engineering Data</i> , 1995 , 40, 18-20	2.8	2

61	Trinuclear complexes of dimethylsilane and cobalt schiff-base complexes. <i>Inorganica Chimica Acta</i> , 1983 , 74, 39-41	2.7	2
60	Complexes of tellurium with vanillydene-schiff bases. <i>Inorganica Chimica Acta</i> , 1983 , 76, L131-L134	2.7	2
59	Evaluation of Excluded Volume Parameter for Polymer-Solvent Systems. <i>Journal of Macromolecular Science Part A, Chemistry</i> , 1982 , 17, 1283-1291		2
58	Binuclear complexes of dimethylsilane and Copper(II) salicyladoximates. <i>Inorganica Chimica Acta</i> , 1983 , 77, L107-L110	2.7	2
57	Versatile Graphitized Carbon Nanofibers in Energy Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 1334-1360	8.3	2
56	Uses of tailored polysaccharides in dentistry 2020 , 287-304		2
55	Bioelectrochemical systems-based metal recovery: Resource, conservation and recycling of metallic industrial effluents. <i>Environmental Research</i> , 2022 , 204, 112346	7.9	2
54	Pyrrolyl Pyrazoline Carbaldehydes as Enoyl-ACP Reductase Inhibitors: Design, Synthesis and Antitubercular Activity. <i>Open Medicinal Chemistry Journal</i> , 2017 , 11, 92-108	1.2	2
53	Biomedical applications of polysaccharides 2020 , 1-34		2
52	Polysaccharide-based polyelectrolyte complex systems for biomedical uses 2020 , 151-174		2
51	Efficient microwave-assisted production of furanics and hydrochar from bamboo (<i>Phyllostachys nigra Boryana</i>) in a biphasic reaction system: effect of inorganic salts. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	2
50	Synthesis and Anticancer Activity of Thiadiazole Containing Thiourea, Benzothiazole and Imidazo[2,1-b][1,3,4]thiadiazole Scaffolds. <i>Medicinal Chemistry</i> , 2021 , 17, 750-765	1.8	2
49	Synthesis of novel CoO nanocubes-NiO octahedral hybrids for electrochemical energy storage supercapacitors. <i>Journal of Environmental Management</i> , 2021 , 298, 113484	7.9	2
48	Two-dimensional ultrathin metal-based nanosheets for photocatalytic CO conversion to solar fuels.. <i>Journal of Environmental Management</i> , 2022 , 313, 114916	7.9	2
47	Efficient removal of heavy metal ions from aqueous media by unmodified and modified nanodiamonds. <i>Journal of Environmental Management</i> , 2022 , 316, 115214	7.9	2
46	Effect of electron beam irradiation induced grafting of sialic acid onto polycaprolactone □ Feasibility study. <i>Materials Science for Energy Technologies</i> , 2018 , 1, 77-83	5.2	1
45	Chemical synthesis, molecular modeling and pharmacophore mapping of new pyrrole derivatives as inhibitors of InhA enzyme and Mycobacterium tuberculosis growth. <i>Medicinal Chemistry Research</i> , 2019 , 28, 1838-1863	2.2	1
44	Molecular docking, synthesis, and antimycobacterial activities of pyrrolyl hydrazones and their copper complexes. <i>Research and Reports in Medicinal Chemistry</i> , 2015 , 1		1

43	Pyrrolyl thiadiazoles as Mycobacterium tuberculosis inhibitors and their in silico analyses. <i>Research and Reports in Medicinal Chemistry</i> , 2015 , 1		1
42	3D-QSAR studies of quinoline Schiff bases as enoyl acyl carrier protein reductase inhibitors. <i>Research and Reports in Medicinal Chemistry</i> , 2014 , 59		1
41	Ceramic Supported Composite Membranes of Hydroxy Ethyl Cellulose Loaded with ALMCM1 for CO2 Separation. <i>Procedia Engineering</i> , 2012 , 44, 108-109		1
40	Synthesis, characterization and evaluation of novel methoxypolyethyleneglycol- grafted-poly(ester-urethane)s for controlled release of repaglinide. <i>Journal of Applied Polymer Science</i> , 2009 , 113, 251-257	2.9	1
39	Feature Article: Versatile Carbon Nanotubes: Synthesis, Purification and Their Applications. <i>Polymer News</i> , 2005 , 30, 6-13		1
38	Heat-Resistant Polymers 2000 ,		1
37	Sorption, Desorption, and Diffusion of Haloalkanes into Miscible Polymeric Blends of Ethylene-Propylene Random Copolymer and Isotactic Polypropylene. <i>Polymer-Plastics Technology and Engineering</i> , 1996 , 35, 121-138		1
36	Diffusion and Sorption of Organic Liquids Through Polymer Membranes. VII. Elastomers Versus Acetic Acid and Dichloroacetic Acid. <i>Polymer-Plastics Technology and Engineering</i> , 1994 , 33, 13-21		1
35	A spectroscopic study of adducts of heterocyclic nitrogen bases with nickel(II) chelates of 2-methyl-5-nitrophenylthiocarbazon. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1986 , 42, 693-694		1
34	Concentration Dependence of Translational Diffusion Coefficient of Polystyrene in Toluene Using an Ultracentrifuge. <i>Journal of Macromolecular Science Part A, Chemistry</i> , 1983 , 19, 687-691		1
33	Acetylacetonate Schiff Base Complexes of Antimony (V). <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 1983 , 13, 805-814		1
32	Complexes of Uranium(IV) Acetate with Hydrazones. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 1984 , 14, 763-771		1
31	Hafnium doped tungsten oxide intercalated carbon matrix for electrochemical detection of perfluorooctanoic acid. <i>Chemical Engineering Journal</i> , 2022 , 434, 134700	14.7	1
30	Engineered biochar: A way forward to environmental remediation. <i>Fuel</i> , 2021 , 122510	7.1	1
29	Polydopamine-coated graphene oxide nanosheets embedded in sulfonated poly(ether sulfone) hybrid UF membranes with superior antifouling properties for water treatment. <i>Chemical Engineering Journal</i> , 2021 , 433, 133526	14.7	1
28	Glucose-based carbon electrode for trace-level detection of acetaminophen. <i>Electrochemical Science Advances</i> , e202100117		1
27	Column: Polymers in Drug Delivery. <i>Polymer News</i> , 2004 , 29, 83-86		1
26	Feature Article: Polymeric Nanoparticulate Drug Delivery Through The Blood Brain Barrier. <i>Polymer News</i> , 2005 , 30, 311-321		1

25	Encapsulation efficiency and release kinetics of solid and liquid pesticides through urea formaldehyde crosslinked starch, guar gum, and starch + guar gum matrices 2001 , 82, 2863		1
24	Polyimidines A New Class of Polymers 1984 , 1-28		1
23	Fouling mechanisms in ultrafiltration under constant flux: Effect of feed spacer design. <i>Chemical Engineering Journal</i> , 2022 , 136563	14.7	1
22	A mixed matrix polyimide ultrafiltration membrane for efficient removal of bentazon from water. <i>Chemical Engineering Journal</i> , 2022 , 433, 134596	14.7	0
21	Maltose-based methacrylated polymer architectures and their biocompatibility. <i>Materials Today Chemistry</i> , 2022 , 23, 100669	6.2	0
20	In Silico ADME and QSAR Studies on a Set of Coumarin Derivatives As Acetylcholinesterase Inhibitors Against Alzheimer Disease: CoMFA, CoMSIA, Topomer CoMFA, and HQSAR. <i>Letters in Drug Design and Discovery</i> , 2020 , 17, 684-712	0.8	0
19	Catalytic production and application of bio-renewable butyl butyrate as jet fuel blend- A review.. <i>Journal of Environmental Management</i> , 2022 , 310, 114772	7.9	0
18	Direct red 89 dye degradation by advanced oxidation process using sulfite and zero valent under ultraviolet irradiation: Toxicity assessment and adaptive neuro-fuzzy inference systems modeling.. <i>Environmental Research</i> , 2022 , 211, 113059	7.9	0
17	g-CN nanosheets functionalized yttrium-doped ZrO nanoparticles for efficient photocatalytic Cr(VI) reduction and energy storage applications.. <i>Journal of Environmental Management</i> , 2022 , 315, 115120	7.9	0
16	Synthesis of bis-1,3-(benz)azoles catalyzed by palladium-PEPPSI complex-based catalysts and the study of photophysical properties.. <i>Chemosphere</i> , 2022 , 134751	8.4	0
15	The identification of byproducts from the catalytic reduction reaction of 4-nitrophenol to 4-aminophenol: A systematic spectroscopic study. <i>Journal of Environmental Management</i> , 2022 , 316, 115292	7.9	0
14	Column: Polymeric Membranes. <i>Polymer News</i> , 2004 , 29, 54-57		
13	Short Communication: Versatile Conjugated Polymer Actuators in Biomedical Applications. <i>Polymer News</i> , 2005 , 30, 195-196		
12	PREPARATION OF POLYURETHANE CATIONOMER BASED AQUEOUS DISPERSIONS. <i>Journal of Dispersion Science and Technology</i> , 1993 , 14, 417-425	1.5	
11	Dimensional Response of Fluoropolymer Membranes in the Presence of Aliphatic Esters. <i>Polymer-Plastics Technology and Engineering</i> , 1994 , 33, 433-444		
10	Synthesis of poly(benzylidene phthalide)s: A new class of polymers. <i>Journal of Polymer Science Part A</i> , 1991 , 29, 1313-1317	2.5	
9	A rigorous evaluation of spectrophotometric data to obtain equilibrium constants and extinction coefficients in donor-acceptor complexes having multiple equilibria. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1986 , 42, 1329-1330		
8	A Novel Approach to Theories of Polymer Coils in Good Solvents. <i>Journal of Macromolecular Science Part A, Chemistry</i> , 1986 , 23, 77-86		

- 7 Complexes of Silicon Tetrachloride with Tetradentate Schiff Bases. *Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry*, **1986**, 16, 191-199
- 6 Feature Article: Luminescent Materials-Polymer-Based Electroluminescence. *Polymer News*, **2004**, 29, 147-154
- 5 Column: Polymeric Membranes. *Polymer News*, **2004**, 29, 253-257
- 4 Column: Polymers in India. *Polymer News*, **2004**, 29, 349-352
- 3 COLUMNS: Polymeric Membranes. *Polymer News*, **2005**, 30, 56-59
- 2 A Report on National Seminar on Emerging Trends in Biodegradable Plastics. *Polymer News*, **2005**, 30, 100-102
- 1 Polymers in India. *Polymer News*, **2005**, 30, 122-124