# Mihir Kumar Purkait

## List of Publications by Citations



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|---|---|---|---|
| 169 papers | 6,814 citations | 45 h-index | 80 g-index |
| 172 ext. papers | 7,727 ext. citations | 5.5 avg, IF | 6.78 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 169 | Adsorption characteristics of brilliant green dye on kaolin. *Journal of Hazardous Materials*, **2009**, 161, 387-95 | 12.8 | 410 |
| 168 | Removal of congo red using activated carbon and its regeneration. *Journal of Hazardous Materials*, **2007**, 145, 287-95 | 12.8 | 409 |
| 167 | Ultrafiltration of stable oil-in-water emulsion by polysulfone membrane. *Journal of Membrane Science*, **2008**, 325, 427-437 | 9.6 | 386 |
| 166 | Effect of molecular weight of PEG on membrane morphology and transport properties. *Journal of Membrane Science*, **2008**, 309, 209-221 | 9.6 | 337 |
| 165 | Removal of cationic dyes from aqueous solutions by kaolin: Kinetic and equilibrium studies. *Applied Clay Science*, **2009**, 42, 583-590 | 5.2 | 327 |
| 164 | Preparation, characterization and performance studies of polysulfone membranes using PVP as an additive. *Journal of Membrane Science*, **2008**, 315, 36-47 | 9.6 | 268 |
| 163 | Arsenic adsorption using copper (II) oxide nanoparticles. *Chemical Engineering Research and Design*, **2012**, 90, 1387-1396 | 5.5 | 207 |
| 162 | Preparation and characterization of low cost ceramic membranes for micro-filtration applications. *Applied Clay Science*, **2008**, 42, 102-110 | 5.2 | 183 |
| 161 | Novel strategy for synthesis of magnetic dummy molecularly imprinted nanoparticles based on functionalized silica as an efficient sorbent for the determination of acrylamide in potato chips: Optimization by experimental design methodology. *Talanta*, **2016**, 154, 526-32 | 6.2 | 176 |
| 160 | Removal of Fe(II) from tap water by electrocoagulation technique. *Journal of Hazardous Materials*, **2008**, 155, 135-43 | 12.8 | 151 |
| 159 | Treatment of fluoride containing drinking water by electrocoagulation using monopolar and bipolar electrode connections. *Chemosphere*, **2008**, 73, 1393-400 | 8.4 | 142 |
| 158 | A novel acorn based adsorbent for the removal of brilliant green. *Desalination*, **2011**, 281, 226-233 | 10.3 | 135 |
| 157 | Application of central composite design for simultaneous removal of methylene blue and Pb(2+) ions by walnut wood activated carbon. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2015**, 135, 479-90 | 4.4 | 131 |
| 156 | Rapid removal of Auramine-O and Methylene blue by ZnS:Cu nanoparticles loaded on activated carbon: A response surface methodology approach. *Journal of the Taiwan Institute of Chemical Engineers*, **2015**, 53, 80-91 | 5.3 | 118 |
| 155 | Treatment of oily wastewater using low cost ceramic membrane: Comparative assessment of pore blocking and artificial neural network models. *Chemical Engineering Research and Design*, **2010**, 88, 881-892 | 5.5 | 110 |
| 154 | Resistance in series model for micellar enhanced ultrafiltration of eosin dye. *Journal of Colloid and Interface Science*, **2004**, 270, 496-506 | 9.3 | 108 |
| 153 | Application of artificial neural network and response surface methodology for the removal of crystal violet by zinc oxide nanorods loaded on activate carbon: kinetics and equilibrium study. *Journal of the Taiwan Institute of Chemical Engineers*, **2016**, 59, 210-220 | 5.3 | 95 |

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| 152 | Adsorption of eosin dye on activated carbon and its surfactant based desorption. *Journal of Environmental Management*, **2005**, 76, 135-42 | 7.9 | 93 |
| 151 | Simultaneous removal of dyes onto nanowires adsorbent use of ultrasound assisted adsorption to clean waste water: Chemometrics for modeling and optimization, multicomponent adsorption and kinetic study. *Chemical Engineering Research and Design*, **2017**, 124, 222-237 | 5.5 | 86 |
| 150 | Green synthesis and environmental application of iron-based nanomaterials and nanocomposite: A review. *Chemosphere*, **2020**, 259, 127509 | 8.4 | 86 |
| 149 | Kinetic and Equilibrium Studies on the Adsorption of Crystal Violet Dye using Kaolin as an Adsorbent. *Separation Science and Technology*, **2008**, 43, 1382-1403 | 2.5 | 85 |
| 148 | Selective preparation of zeolite X and A from flyash and its use as catalyst for biodiesel production. *Journal of Hazardous Materials*, **2015**, 297, 101-11 | 12.8 | 79 |
| 147 | Simultaneous removal of methylene blue and Pb2+ ions using ruthenium nanoparticle-loaded activated carbon: response surface methodology. *RSC Advances*, **2015**, 5, 83427-83435 | 3.7 | 79 |
| 146 | Novel synthesis of nanocomposite for the extraction of Sildenafil Citrate (Viagra) from water and urine samples: Process screening and optimization. *Ultrasonics Sonochemistry*, **2017**, 38, 463-472 | 8.9 | 76 |
| 145 | Cadmium telluride nanoparticles loaded on activated carbon as adsorbent for removal of sunset yellow. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2012**, 90, 22-7 | 4.4 | 75 |
| 144 | Preparation and characterization of low cost ceramic membranes for mosambi juice clarification. *Desalination*, **2013**, 317, 32-40 | 10.3 | 75 |
| 143 | Highly efficient simultaneous biosorption of Hg2+, Pb2+ and Cu2+ by Live yeast Yarrowia lipolytica 70562 following response surface methodology optimization: Kinetic and isotherm study. *Journal of Industrial and Engineering Chemistry*, **2017**, 48, 162-172 | 6.3 | 72 |
| 142 | Simultaneous ultrasound-assisted removal of sunset yellow and erythrosine by ZnS:Ni nanoparticles loaded on activated carbon: optimization by central composite design. *Ultrasonics Sonochemistry*, **2014**, 21, 1441-50 | 8.9 | 72 |
| 141 | Cross flow microfiltration of oil–water emulsions using kaolin based low cost ceramic membranes. *Desalination*, **2014**, 341, 61-71 | 10.3 | 70 |
| 140 | Cloud point extraction of toxic eosin dye using Triton X-100 as nonionic surfactant. *Water Research*, **2005**, 39, 3885-90 | 12.5 | 70 |
| 139 | Performance of TX-100 and TX-114 for the separation of chrysoidine dye using cloud point extraction. *Journal of Hazardous Materials*, **2006**, 137, 827-35 | 12.8 | 68 |
| 138 | A review on the environment-friendly emerging techniques for pretreatment of lignocellulosic biomass: Mechanistic insight and advancements. *Chemosphere*, **2021**, 264, 128523 | 8.4 | 68 |
| 137 | Ultrasonic assisted removal of methylene blue on ultrasonically synthesized zinc hydroxide nanoparticles on activated carbon prepared from wood of cherry tree: Experimental design methodology and artificial neural network. *Journal of Molecular Liquids*, **2017**, 229, 114-124 | 6 | 66 |
| 136 | Cross-Flow Microfiltration of Industrial Oily Wastewater: Experimental and Theoretical Consideration. *Separation Science and Technology*, **2011**, 46, 1213-1223 | 2.5 | 65 |
| 135 | MOFs for the treatment of arsenic, fluoride and iron contaminated drinking water: A review. *Chemosphere*, **2020**, 251, 126388 | 8.4 | 64 |

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| 134 | Kinetic and Equilibrium Study for the Fluoride Adsorption using Pyrophyllite. *Separation Science and Technology*, **2011**, 46, 1797-1807 | 2.5 | 64 |
| 133 | Lignocellulosic conversion into value-added products: A review. *Process Biochemistry*, **2020**, 89, 110-133 | 4.8 | 63 |
| 132 | Treatment of Oily Waste Water Using Low-Cost Ceramic Membrane: Flux Decline Mechanism and Economic Feasibility. *Separation Science and Technology*, **2009**, 44, 2840-2869 | 2.5 | 62 |
| 131 | Effect of process parameters on electroless plating and nickel-ceramic composite membrane characteristics. *Desalination*, **2011**, 268, 195-203 | 10.3 | 61 |
| 130 | Micellar enhanced ultrafiltration of eosin dye using hexadecyl pyridinium chloride. *Journal of Hazardous Materials*, **2006**, 136, 972-7 | 12.8 | 59 |
| 129 | Cu2O photocatalyst modified antifouling polysulfone mixed matrix membrane for ultrafiltration of protein and visible light driven photocatalytic pharmaceutical removal. *Separation and Purification Technology*, **2019**, 212, 191-204 | 8.3 | 59 |
| 128 | SEM analysis and gas permeability test to characterize polysulfone membrane prepared with polyethylene glycol as additive. *Journal of Colloid and Interface Science*, **2008**, 320, 245-53 | 9.3 | 57 |
| 127 | Micro and nanocrystalline cellulose derivatives of lignocellulosic biomass: A review on synthesis, applications and advancements. *Carbohydrate Polymers*, **2020**, 250, 116937 | 10.3 | 54 |
| 126 | Preparation and characterization of novel green synthesized iron-aluminum nanocomposite and studying its efficiency in fluoride removal. *Chemosphere*, **2019**, 235, 391-402 | 8.4 | 52 |
| 125 | Micellar enhanced ultrafiltration of phenolic derivatives from their mixtures. *Journal of Colloid and Interface Science*, **2005**, 285, 395-402 | 9.3 | 49 |
| 124 | Green synthesized iron nanoparticles supported on pH responsive polymeric membrane for nitrobenzene reduction and fluoride rejection study: Optimization approach. *Journal of Cleaner Production*, **2018**, 170, 1111-1123 | 10.3 | 45 |
| 123 | Adsorption Behavior of Chrysoidine Dye on Activated Charcoal and Its Regeneration Characteristics by Using Different Surfactants. *Separation Science and Technology*, **2005**, 39, 2419-2440 | 2.5 | 45 |
| 122 | Fe3O4 promoted metal organic framework MIL-100(Fe) for the controlled release of doxorubicin hydrochloride. *Microporous and Mesoporous Materials*, **2018**, 259, 203-210 | 5.3 | 42 |
| 121 | Technological advancement in the synthesis and applications of lignin-based nanoparticles derived from agro-industrial waste residues: A review. *International Journal of Biological Macromolecules*, **2020**, 163, 1828-1843 | 7.9 | 36 |
| 120 | House hold unit for the treatment of fluoride, iron, arsenic and microorganism contaminated drinking water. *Chemosphere*, **2018**, 199, 728-736 | 8.4 | 32 |
| 119 | Ultrasonic assisted removal of sunset yellow from aqueous solution by zinc hydroxide nanoparticle loaded activated carbon: Optimized experimental design. *Materials Science and Engineering C*, **2015**, 52, 82-9 | 8.3 | 31 |
| 118 | Preparation of a novel thermo responsive PSF membrane, with cross linked PVCL-co-PSF copolymer for protein separation and easy cleaning. *RSC Advances*, **2015**, 5, 22609-22619 | 3.7 | 30 |
| 117 | Microfiltration of oil–water emulsions using low cost ceramic membranes prepared with the uniaxial dry compaction method. *Ceramics International*, **2014**, 40, 1155-1164 | 5.1 | 30 |

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| 116 | Introduction to Membranes. *Interface Science and Technology*, **2018**, 25, 1-37 | 2.3 | 30 |
| 115 | Stimuli responsive mixed matrix polysulfone ultrafiltration membrane for humic acid and photocatalytic dye removal applications. *Separation and Purification Technology*, **2020**, 250, 117247 | 8.3 | 29 |
| 114 | Recent Developments in Nanomaterials-Modified Membranes for Improved Membrane Distillation Performance. *Membranes*, **2020**, 10, | 3.8 | 29 |
| 113 | Ultrasonic assisted dispersive solid-phase microextraction of Eriochrome Cyanine R from water sample on ultrasonically synthesized lead (II) dioxide nanoparticles loaded on activated carbon: Experimental design methodology. *Ultrasonics Sonochemistry*, **2017**, 34, 317-324 | 8.9 | 28 |
| 112 | Integrated ozonation assisted electrocoagulation process for the removal of cyanide from steel industry wastewater. *Chemosphere*, **2021**, 263, 128370 | 8.4 | 28 |
| 111 | Effect of Polyethylene glycol methyl ether blend Humic acid on poly (vinylidene fluoride-co-hexafluropropylene) PVDF-HFP membranes: pH responsiveness and antifouling behavior with optimization approach. *Polymer Testing*, **2017**, 61, 162-176 | 4.5 | 27 |
| 110 | Manufacture of Nickel-Ceramic Composite Membranes in Agitated Electroless Plating Baths. *Materials and Manufacturing Processes*, **2011**, 26, 862-867 | 4.1 | 27 |
| 109 | Utilization of waste polyvinyl chloride (PVC) for ultrafiltration membrane fabrication and its characterization. *Journal of Environmental Chemical Engineering*, **2020**, 8, 103650 | 6.8 | 26 |
| 108 | Electrochemical reduction of CO2 to HCOOH using zinc and cobalt oxide as electrocatalysts. *New Journal of Chemistry*, **2015**, 39, 7348-7354 | 3.6 | 25 |
| 107 | Preparation and characterization of animal bone powder impregnated fly ash catalyst for transesterification. *Science of the Total Environment*, **2019**, 669, 314-321 | 10.2 | 24 |
| 106 | Synthesis of Pb2O electrocatalyst and its application in the electrochemical reduction of CO2 to HCOOH in various electrolytes. *RSC Advances*, **2015**, 5, 40414-40421 | 3.7 | 24 |
| 105 | Oxidative desulfurization: kinetic modelling. *Journal of Hazardous Materials*, **2009**, 161, 1360-8 | 12.8 | 24 |
| 104 | Electrochemical Studies for CO2 Reduction Using Synthesized Co3O4 (Anode) and Cu2O (Cathode) as Electrocatalysts. *Energy & Fuels*, **2015**, 29, 6670-6677 | 4.1 | 23 |
| 103 | Potential and sustainable utilization of tea waste: A review on present status and future trends. *Journal of Environmental Chemical Engineering*, **2021**, 9, 106179 | 6.8 | 23 |
| 102 | Advances in Dye Removal Technologies. *Green Chemistry and Sustainable Technology*, **2018**, | 1.1 | 22 |
| 101 | Preparation and Characterizations of Ceramic Microfiltration Membrane: Effect of Inorganic Precursors on Membrane Morphology. *Separation Science and Technology*, **2010**, 46, 33-45 | 2.5 | 21 |
| 100 | Evaluation of mPEG effect on the hydrophilicity and antifouling nature of the PVDF-co-HFP flat sheet polymeric membranes for humic acid removal. *Journal of Water Process Engineering*, **2016**, 14, 9-18 | 6.7 | 21 |
| 99 | Role of poly(2-acrylamido-2-methyl-1-propanesulfonic acid) in the modification of polysulfone membranes for ultrafiltration. *Journal of Applied Polymer Science*, **2017**, 134, 45290 | 2.9 | 20 |

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| 98 | Selective glucose permeability in presence of various salts through tunable pore size of pH responsive PVDF-co-HFP membrane. *Separation and Purification Technology*, **2019**, 221, 249-260 | 8.3 | 18 |
| 97 | Use of CSPAA nanoparticles as an alternative to metal oxide nanoparticles and their effect on fouling mitigation of a PSF ultrafiltration membrane. *RSC Advances*, **2015**, 5, 66109-66121 | 3.7 | 18 |
| 96 | Artificial Neural Network (ANN) Method for Modeling of Sunset Yellow Dye Adsorption Using Nickel Sulfide Nanoparticle Loaded on Activated Carbon: Kinetic and Isotherm Study. *Journal of Dispersion Science and Technology*, **2015**, 36, 1339-1348 | 1.5 | 18 |
| 95 | Combinatorial performance characteristics of agitated nickel hypophosphite electroless plating baths. *Journal of Materials Processing Technology*, **2011**, 211, 1488-1499 | 5.3 | 18 |
| 94 | Fabrication of ultrasound-mediated tunable graphene oxide nanoscrolls. *Ultrasonics Sonochemistry*, **2020**, 63, 104976 | 8.9 | 16 |
| 93 | Effect of Ultrasound on the Performance of Nickel Hydrazine Electroless Plating Baths. *Materials and Manufacturing Processes*, **2012**, 27, 201-206 | 4.1 | 15 |
| 92 | Treatment of Leather Plant Effluent by Membrane Separation Processes. *Separation Science and Technology*, **2006**, 41, 3329-3348 | 2.5 | 15 |
| 91 | Electrochemical reduction of CO2 to HCOOH on a synthesized Sn electrocatalyst using a Co3O4 anode. *RSC Advances*, **2015**, 5, 68551-68557 | 3.7 | 14 |
| 90 | Adsorption of naphthalene onto high-surface-area nanoparticle loaded activated carbon by high performance liquid chromatography: response surface methodology, isotherm and kinetic study. *RSC Advances*, **2016**, 6, 54322-54330 | 3.7 | 14 |
| 89 | Purification of catechins from Camellia sinensis using membrane cell. *Food and Bioproducts Processing*, **2019**, 117, 203-212 | 4.9 | 14 |
| 88 | Experimental evaluation of Pt/TiO2/rGO as an efficient HER catalyst via artificial photosynthesis under UVB & visible irradiation. *International Journal of Hydrogen Energy*, **2020**, 45, 17174-17190 | 6.7 | 14 |
| 87 | Membrane Technology in Separation Science | | 13 |
| 86 | Biopolymer (gum arabic) incorporation in waste polyvinylchloride membrane for the enhancement of hydrophilicity and natural organic matter removal in water. *Journal of Water Process Engineering*, **2020**, 38, 101569 | 6.7 | 13 |
| 85 | Ultrasound assisted extraction of gallic acid from Ficus auriculata leaves using green solvent. *Food and Bioproducts Processing*, **2021**, 128, 1-11 | 4.9 | 13 |
| 84 | A review on global perspectives of sustainable development in bioenergy generation.. *Bioresource Technology*, **2022**, 348, 126791 | 11 | 12 |
| 83 | A critical review on the techniques used for the synthesis and applications of crystalline cellulose derived from agricultural wastes and forest residues. *Carbohydrate Polymers*, **2021**, 273, 118537 | 10.3 | 12 |
| 82 | Performance characteristics of hydrothermal and sonication assisted electroless plating baths for nickel–ceramic composite membrane fabrication. *Desalination*, **2012**, 284, 77-85 | 10.3 | 11 |
| 81 | Preparation and characterization of hydrotalcite-like materials from flyash for transesterification. *Clean Technologies and Environmental Policy*, **2016**, 18, 529-540 | 4.3 | 10 |

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| 80 | Green synthesized iron nanoparticle-embedded pH-responsive PVDF-co-HFP membranes: Optimization study for NPs preparation and nitrobenzene reduction. *Separation Science and Technology*, **2017**, 52, 2338-2355 | 2.5 | 9 |
| 79 | Thermochemical pretreatment enhanced bioconversion of elephant grass (Pennisetum purpureum): insight on the production of sugars and lignin. *Biomass Conversion and Biorefinery*, **2020**, 1 | 2.3 | 9 |
| 78 | Simultaneous CO2 Reduction and Dye (Crystal Violet) Removal Electrochemically on Sn and Zn Electrocatalysts Using Co3O4 Anode. *Energy & Fuels*, **2016**, 30, 3340-3346 | 4.1 | 9 |
| 77 | Microfiltration Membranes **2019**, 111-146 | | 9 |
| 76 | pH-Responsive Membranes. *Interface Science and Technology*, **2018**, 39-66 | 2.3 | 9 |
| 75 | Utilization of LD slag from steel industry for the preparation of MF membrane. *Journal of Environmental Management*, **2020**, 259, 110060 | 7.9 | 8 |
| 74 | Preparation of hydrophilic polysulfone membrane using polyacrylic acid with polyvinyl pyrrolidone. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a | 2.9 | 8 |
| 73 | Cloud Point Extraction of Nitrobenzene using TX-100. *Separation Science and Technology*, **2011**, 46, 744-753 | 2.5 | 8 |
| 72 | Simultaneous Separation of Two Oxyanions from Their Mixture Using Micellar Enhanced Ultrafiltration. *Separation Science and Technology*, **2005**, 40, 1439-1460 | 2.5 | 8 |
| 71 | Surface engineering characteristics of ultrasound assisted hypophosphite electroless plating baths. *Surface Engineering*, **2013**, 29, 489-494 | 2.6 | 7 |
| 70 | Microfiltration of stable oil-in-water emulsions using kaolinbased ceramic membrane and evaluation of fouling mechanism. *Desalination and Water Treatment*, **2010**, 22, 133-145 | | 7 |
| 69 | Nickel-ceramic composite membranes: Optimization of hydrazine based electroless plating process parameters. *Desalination*, **2011**, 275, 243-251 | 10.3 | 7 |
| 68 | Magnetic-Responsive Membranes. *Interface Science and Technology*, **2018**, 193-219 | 2.3 | 7 |
| 67 | Concurrent electrochemical CO2 reduction to HCOOH and methylene blue removal on metal electrodes. *RSC Advances*, **2016**, 6, 40916-40922 | 3.7 | 6 |
| 66 | Photoresponsive Membranes. *Interface Science and Technology*, **2018**, 115-144 | 2.3 | 6 |
| 65 | Environmental remediation by tea waste and its derivative products: A review on present status and technological advancements.. *Chemosphere*, **2022**, 300, 134480 | 8.4 | 6 |
| 64 | Recovery of H2SO4 from wastewater in the presence of NaCl and KHCO3 through pH responsive polysulfone membrane: Optimization approach. *Polymer Testing*, **2020**, 86, 106463 | 4.5 | 5 |
| 63 | Evaluation of Surfactants for the Cost Effective Enhanced Oil Recovery of Assam Crude Oil Fields. *Petroleum Science and Technology*, **2013**, 31, 755-762 | 1.4 | 5 |

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| 62 | Emulsion Liquid Membrane. *Green Chemistry and Sustainable Technology*, **2018**, 313-323 | 1.1 | 4 |
| 61 | Temperature-Responsive Membranes. *Interface Science and Technology*, **2018**, 25, 67-113 | 2.3 | 4 |
| 60 | Biologically Responsive Membranes. *Interface Science and Technology*, **2018**, 25, 145-171 | 2.3 | 4 |
| 59 | Electric Field-Responsive Membranes. *Interface Science and Technology*, **2018**, 173-191 | 2.3 | 4 |
| 58 | Progress in the electrochemical reduction of CO2 to formic acid: A review on current trends and future prospects. *Journal of Environmental Chemical Engineering*, **2021**, 9, 106394 | 6.8 | 4 |
| 57 | Doxorubicin Loading Capacity of MIL-100(Fe): Effect of Synthesis Conditions. *Journal of Inorganic and Organometallic Polymers and Materials*, **2020**, 30, 2366-2375 | 3.2 | 3 |
| 56 | Hybrid electrocoagulationEhicrofiltration technique for treatment of nanofiltration rejected steel industry effluent. *International Journal of Environmental Analytical Chemistry*, **2020**, 1-22 | 1.8 | 3 |
| 55 | Treatment of Colored Effluent using Surfactant Modified Bamboo Leaves Powder. *Separation Science and Technology*, **2014**, 49, 221-231 | 2.5 | 3 |
| 54 | Precipitation of cetyl (hexadecyl) pyridineum chloride using mono and divalent oxyanions. *Journal of Hazardous Materials*, **2008**, 160, 502-7 | 12.8 | 3 |
| 53 | Synthesis of Carbon Nanotubes from Industrial Wastes Following Alkali Activation and Film Casting Method. *Waste and Biomass Valorization*, **2020**, 11, 4957-4966 | 3.2 | 3 |
| 52 | Adsorption of Dyes. *Green Chemistry and Sustainable Technology*, **2018**, 49-98 | 1.1 | 3 |
| 51 | Ultrasound-assisted dispersive micro-solid-phase extraction using hydrophobic thiolated ionic liquids immobilized on gold nanoparticles for the preconcentration and determination of amino acids in human plasma samples. *Separation Science Plus*, **2018**, 1, 419-429 | 1.1 | 3 |
| 50 | Loading and release of doxorubicin hydrochloride from iron(iii) trimesate MOF and zinc oxide nanoparticle composites. *Dalton Transactions*, **2020**, 49, 8755-8763 | 4.3 | 2 |
| 49 | Promising integrated technique for the treatment of highly saline nanofiltration rejected stream of steel industry. *Journal of Environmental Management*, **2021**, 300, 113781 | 7.9 | 2 |
| 48 | Membrane adsorption. *Interface Science and Technology*, **2021**, 33, 629-653 | 2.3 | 2 |
| 47 | Metal removal efficiency of novel LD-slag-incorporated ceramic membrane from steel plant wastewater. *International Journal of Environmental Analytical Chemistry*, **2020**, 1-17 | 1.8 | 1 |
| 46 | Polymeric ultrafiltration membranes modified with fly ash based carbon nanotubes for thermal stability and protein separation. *Case Studies in Chemical and Environmental Engineering*, **2021**, 4, 100155 | 7.5 | 1 |
| 45 | CeO2 nanoparticles incorporated MIL-100(Fe) composites for loading of an anticancer drug: Effects of HF in composite synthesis and drug loading capacity. *Inorganica Chimica Acta*, **2022**, 533, 120784 | 2.7 | 1 |

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| 44 | Uses of Ceramic Membrane-Based Technology for the Clarification of Mosambi, Pineapple and Orange Juice. *Materials Horizons*, **2019**, 459-483 | 0.6 | 1 |
| 43 | Conversion of Waste Biomass to Bio-oils and Upgradation by Hydrothermal Liquefaction, Gasification, and Hydrodeoxygenation **2020**, 285-315 | | 1 |
| 42 | Racemic and enantiomeric effect of tartaric acid on the hydrophilicity of polysulfone membrane. *Membrane Water Treatment*, **2016**, 7, 257-275 | | 1 |
| 41 | Membrane contactors **2020**, 143-162 | | 1 |
| 40 | Applications of thermal induced membrane separation processes **2020**, 251-267 | | 1 |
| 39 | Ultrasound-Responsive Membranes. *Interface Science and Technology*, **2018**, 25, 221-237 | 2.3 | 1 |
| 38 | Progress in the synthesis and applications of polymeric nanomaterials derived from waste lignocellulosic biomass **2022**, 419-433 | | 1 |
| 37 | Green Synthesized Carbon and Metallic Nanomaterials for Biofuel Production: Effect of Operating Parameters. *Clean Energy Production Technologies*, **2022**, 105-126 | 0.8 | 1 |
| 36 | Formation and detoxification of inhibitors **2021**, 61-78 | | 0 |
| 35 | Value-added products derived from lignocellulosic biomass **2021**, 125-140 | | 0 |
| 34 | Analytical methods for the quantification of sugars and characterization of biomass **2021**, 111-124 | | 0 |
| 33 | Kinetic and isotherm study of Sudan black B removal. *Toxicology and Industrial Health*, **2016**, 32, 1891-1901 | 1.8 | |
| 32 | Prediction of flux decline during membrane filtration of leather plant effluent. *International Journal of Environment and Waste Management*, **2012**, 9, 123 | 0.9 | |
| 31 | Improving the Hydrophilicity of Polysulfone Membrane by the Addition of Imidazol with Polyvinyl Pyrrolidone for Crystal Violet Dye Removal **2019**, 395-407 | | |
| 30 | Treatment of Coal Industry Effluents **2019**, 241-256 | | |
| 29 | Surfactant-Enhanced Carbon Regeneration. *Green Chemistry and Sustainable Technology*, **2018**, 141-151 | 1.1 | |
| 28 | Micellar-Enhanced Ultrafiltration (MEUF). *Green Chemistry and Sustainable Technology*, **2018**, 227-256 | 1.1 | |
| 27 | Adsorption of Dyes from Actual Effluent. *Green Chemistry and Sustainable Technology*, **2018**, 99-139 | 1.1 | |

26 Nanofiltration of Dyes. *Green Chemistry and Sustainable Technology*, **2018**, 153-197 1.1

25 Hybrid Treatment Method of Industrial Effluent. *Green Chemistry and Sustainable Technology*, **2018**, 199-225 1.1

24 Cloud Point Extraction. *Green Chemistry and Sustainable Technology*, **2018**, 257-288 1.1

23 Thermal induced membrane separation processes: an introduction **2020**, 1-16

22 Membrane materials and modification for thermal induced membrane separation processes **2020**, 41-53

21 Fabrication and characterization techniques for thermal induced membrane separation processes **2020**, 55-76

20 Membrane distillation **2020**, 77-97

19 Theoretical aspects, design, and modeling in thermal induced membrane separation processes **2020**, 17-39

18 Pervaporation **2020**, 99-120

17 Membrane crystallization **2020**, 121-142

16 Membrane reactors and their applications in thermal induced membrane separation processes **2020**, 163-186

15 Novel smart, super-hydrophobic, and next generation membranes for thermal induced membrane separation processes **2020**, 187-202

14 Membrane processes in integrated systems **2020**, 203-227

13 Fouling and its mitigation in thermal induced membrane separation processes **2020**, 229-249

12 Advancements in thermal induced membrane separation processes **2020**, 269-295

11 Bio-based Polymeric Nanocomposites for Stimuli-Responsive Membranes **2021**, 1-28

10 Bio-based Polymeric Nanocomposites for Stimuli-Responsive Membranes **2021**, 781-808

9 Enzymatic hydrolysis of lignocellulosic biomass: Mechanistic insight and advancement **2021**, 79-94

# List of Publications

8 Conventional pretreatment methods of lignocellulosic biomass **2021**, 31-46

7 Compositional aspects of lignocellulosic biomass **2021**, 17-30

6 Introduction to lignocellulosic biomass and its potential **2021**, 1-15

5 Strategies to improve enzymatic production of sugars **2021**, 95-109

4 Bioenergy from biomass **2021**, 153-166

3 Electrocoagulation. *Green Chemistry and Sustainable Technology*, **2018**, 289-312 1.1

2 Emerging and advanced techniques in the pretreatment of lignocellulosic biomass **2021**, 47-60

1 Potential of MOF-based novel adsorbents for the removal of aquatic pollutants **2022**, 29-47