

Somenath Mitra

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225
papers

7,043
citations

45
h-index

74
g-index

230
ext. papers

7,689
ext. citations

5.7
avg, IF

6.39
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 225 | Rapidly functionalized, water-dispersed carbon nanotubes at high concentration. <i>Journal of the American Chemical Society</i> , 2006 , 128, 95-9 | 16.4 | 338 |
| 224 | Water desalination using carbon-nanotube-enhanced membrane distillation. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 110-4 | 9.5 | 222 |
| 223 | A fullerene-single wall carbon nanotube complex for polymer bulk heterojunction photovoltaic cells. <i>Journal of Materials Chemistry</i> , 2007 , 17, 2406-2411 | | 182 |
| 222 | Dispersal state of multiwalled carbon nanotubes elicits profibrogenic cellular responses that correlate with fibrogenesis biomarkers and fibrosis in the murine lung. <i>ACS Nano</i> , 2011 , 5, 9772-87 | 16.7 | 159 |
| 221 | Microwave-induced rapid chemical functionalization of single-walled carbon nanotubes. <i>Carbon</i> , 2005 , 43, 1015-1020 | 10.4 | 155 |
| 220 | Interlaboratory evaluation of in vitro cytotoxicity and inflammatory responses to engineered nanomaterials: the NIEHS Nano GO Consortium. <i>Environmental Health Perspectives</i> , 2013 , 121, 683-90 | 8.4 | 151 |
| 219 | Facile fabrication of superior nanofiltration membranes from interfacially polymerized CNT-polymer composites. <i>Journal of Membrane Science</i> , 2011 , 375, 81-87 | 9.6 | 143 |
| 218 | Adsorption of arsenic on multiwall carbon nanotube-zirconia nanohybrid for potential drinking water purification. <i>Journal of Colloid and Interface Science</i> , 2012 , 375, 154-9 | 9.3 | 142 |
| 217 | Quantitative techniques for assessing and controlling the dispersion and biological effects of multiwalled carbon nanotubes in mammalian tissue culture cells. <i>ACS Nano</i> , 2010 , 4, 7241-52 | 16.7 | 142 |
| 216 | Removal of Trace Arsenic to Meet Drinking Water Standards Using Iron Oxide Coated Multiwall Carbon Nanotubes. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 2077-2083 | 2.8 | 121 |
| 215 | Anti-HER2 IgY antibody-functionalized single-walled carbon nanotubes for detection and selective destruction of breast cancer cells. <i>BMC Cancer</i> , 2009 , 9, 351 | 4.8 | 120 |
| 214 | Effect of MWCNT size, carboxylation, and purification on in vitro and in vivo toxicity, inflammation and lung pathology. <i>Particle and Fibre Toxicology</i> , 2013 , 10, 57 | 8.4 | 119 |
| 213 | Chromatography on self-assembled carbon nanotubes. <i>Analytical Chemistry</i> , 2005 , 77, 7094-7 | 7.8 | 117 |
| 212 | Enhanced desalination via functionalized carbon nanotube immobilized membrane in direct contact membrane distillation. <i>Separation and Purification Technology</i> , 2014 , 136, 58-65 | 8.3 | 113 |
| 211 | Comparison of nanotube-protein corona composition in cell culture media. <i>Small</i> , 2013 , 9, 2171-81 | 11 | 109 |
| 210 | Effects of polymer wrapping and covalent functionalization on the stability of MWCNT in aqueous dispersions. <i>Journal of Colloid and Interface Science</i> , 2011 , 355, 383-8 | 9.3 | 105 |
| 209 | Effect of carbon nanotube (CNT) functionalization in Epoxy-CNT composites. <i>Nanotechnology Reviews</i> , 2018 , 7, 475-485 | 6.3 | 105 |

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| 208 | Fabrication of high-performance flexible alkaline batteries by implementing multiwalled carbon nanotubes and copolymer separator. <i>Advanced Materials</i> , 2014 , 26, 970-6 | 24 | 98 |
| 207 | Desalination across a graphene oxide membrane via direct contact membrane distillation. <i>Desalination</i> , 2016 , 378, 37-43 | 10.3 | 97 |
| 206 | Cytotoxicity effects of water dispersible oxidized multiwalled carbon nanotubes on marine alga, <i>Dunaliella tertiolecta</i> . <i>Aquatic Toxicology</i> , 2010 , 100, 194-201 | 5.1 | 94 |
| 205 | Gas chromatography on self-assembled, single-walled carbon nanotubes. <i>Analytical Chemistry</i> , 2006 , 78, 2064-70 | 7.8 | 86 |
| 204 | Self-assembly of carbon nanotubes via ethanol chemical vapor deposition for the synthesis of gas chromatography columns. <i>Analytical Chemistry</i> , 2010 , 82, 5184-8 | 7.8 | 81 |
| 203 | Kinetics of carbon nanotube oxidation. <i>Journal of Materials Chemistry</i> , 2007 , 17, 619-623 | | 79 |
| 202 | Supported liquid membrane microextraction with high-performance liquid chromatography-UV detection for monitoring trace haloacetic acids in water. <i>Journal of Chromatography A</i> , 2004 , 1055, 63-9 | 4.5 | 79 |
| 201 | Mechanism of carbon nanotube growth by CVD. <i>Chemical Physics Letters</i> , 2006 , 424, 126-132 | 2.5 | 77 |
| 200 | Preconcentration of volatile organics on self-assembled, carbon nanotubes in a microtrap. <i>Analytical Chemistry</i> , 2005 , 77, 1183-7 | 7.8 | 76 |
| 199 | Stepwise Reduction of Graphene Oxide (GO) and Its Effects on Chemical and Colloidal Properties. <i>Scientific Reports</i> , 2018 , 8, 10083 | 4.9 | 68 |
| 198 | Automated, on-line membrane extraction. <i>Journal of Chromatography A</i> , 2007 , 1152, 199-214 | 4.5 | 68 |
| 197 | Microfluidic supported liquid membrane extraction. <i>Analytica Chimica Acta</i> , 2005 , 543, 92-98 | 6.6 | 68 |
| 196 | Fast microwave-assisted purification, functionalization and dispersion of multi-walled carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 5770-5 | 1.3 | 66 |
| 195 | Carbon nanotubes as the sorbent for integrating micro-solid phase extraction within the needle of a syringe. <i>Journal of Chromatography A</i> , 2009 , 1216, 2270-4 | 4.5 | 64 |
| 194 | Flux enhancement in direct contact membrane distillation by implementing carbon nanotube immobilized PTFE membrane. <i>Separation and Purification Technology</i> , 2016 , 161, 136-143 | 8.3 | 63 |
| 193 | Altering the polarity of self-assembled carbon nanotubes stationary phase via covalent functionalization. <i>RSC Advances</i> , 2011 , 1, 685 | 3.7 | 59 |
| 192 | Microtrapping characteristics of single and multi-walled carbon nanotubes. <i>Journal of Chromatography A</i> , 2008 , 1185, 161-6 | 4.5 | 58 |
| 191 | Rapid, low temperature microwave synthesis of novel carbon nanotube-silicon carbide composite. <i>Carbon</i> , 2006 , 44, 2804-2808 | 10.4 | 58 |

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| 190 | Instillation versus inhalation of multiwalled carbon nanotubes: exposure-related health effects, clearance, and the role of particle characteristics. <i>ACS Nano</i> , 2014 , 8, 8911-31 | 16.7 | 57 |
| 189 | Enhanced desalination using carboxylated carbon nanotube immobilized membranes. <i>Separation and Purification Technology</i> , 2013 , 120, 373-377 | 8.3 | 57 |
| 188 | Microwave-Induced Controlled Purification of Single-Walled Carbon Nanotubes without Sidewall Functionalization. <i>Advanced Functional Materials</i> , 2007 , 17, 3946-3951 | 15.6 | 57 |
| 187 | Scaled-up self-assembly of carbon nanotubes inside long stainless steel tubing. <i>Carbon</i> , 2006 , 44, 1235-1242 | 16.4 | 57 |
| 186 | Patterns and sources of polycyclic aromatic hydrocarbons and their derivatives in indoor air. <i>Atmospheric Environment</i> , 1995 , 29, 3345-3356 | 5.3 | 57 |
| 185 | Modifying the sorption properties of multi-walled carbon nanotubes via covalent functionalization. <i>Analyst, The</i> , 2009 , 134, 1928-33 | 5 | 52 |
| 184 | Continuous monitoring of volatile organic compounds in air emissions using an on-line membrane extraction-microtrap-gas chromatographic system. <i>Journal of Chromatography A</i> , 1996 , 736, 165-173 | 4.5 | 52 |
| 183 | Continuous gas chromatographic monitoring of low concentration sample streams using an on-line microtrap. <i>Journal of Chromatography A</i> , 1993 , 648, 415-421 | 4.5 | 50 |
| 182 | Carbon nanotube enhanced membrane distillation for simultaneous generation of pure water and concentrating pharmaceutical waste. <i>Separation and Purification Technology</i> , 2012 , 90, 239-245 | 8.3 | 47 |
| 181 | Micropreconcentration units based on carbon nanotubes (CNT). <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 399, 75-89 | 4.4 | 45 |
| 180 | Continuous monitoring of volatile organic compounds in water using on-line membrane extraction and microtrap gas chromatography system. <i>Journal of Chromatography A</i> , 1994 , 688, 171-180 | 4.5 | 44 |
| 179 | Nanodiamond immobilized membranes for enhanced desalination via membrane distillation. <i>Desalination</i> , 2014 , 341, 115-119 | 10.3 | 42 |
| 178 | Two-stage microtrap as an injection device for continuous on-line gas chromatographic monitoring. <i>Journal of Chromatography A</i> , 1998 , 805, 169-176 | 4.5 | 42 |
| 177 | Characteristics of microtrap-based injection systems for continuous monitoring of volatile organic compounds by gas chromatography. <i>Journal of Chromatography A</i> , 1996 , 727, 111-118 | 4.5 | 42 |
| 176 | An Empirical Method to Predict Solubility in Supercritical Fluids. <i>Journal of Chromatographic Science</i> , 1991 , 29, 305-309 | 1.4 | 42 |
| 175 | Improved optical limiting in dispersible carbon nanotubes and their metal oxide hybrids. <i>Carbon</i> , 2011 , 49, 4767-4773 | 10.4 | 41 |
| 174 | A Bilayered Structure Comprised of Functionalized Carbon Nanotubes for Desalination by Membrane Distillation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19507-13 | 9.5 | 40 |
| 173 | Atomistic simulation study of surfactant and polymer interactions on the surface of a fenofibrate crystal. <i>European Journal of Pharmaceutical Sciences</i> , 2011 , 42, 452-61 | 5.1 | 40 |

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| 172 | A microfabricated microconcentrator for sensors and gas chromatography. <i>Journal of Chromatography A</i> , 2003 , 996, 1-11 | 4.5 | 39 |
| 171 | Processing of fullerene-single wall carbon nanotube complex for bulk heterojunction photovoltaic cells. <i>Applied Physics Letters</i> , 2007 , 91, 253112 | 3.4 | 38 |
| 170 | Solubility and partial molar volumes of heavy aromatic hydrocarbons in super critical carbon dioxide. <i>Journal of Chemical & Engineering Data</i> , 1988 , 33, 35-37 | 2.8 | 38 |
| 169 | Carbon nanotube immobilized membrane with controlled nanotube incorporation via phase inversion polymerization for membrane distillation based desalination. <i>Separation and Purification Technology</i> , 2018 , 194, 249-255 | 8.3 | 38 |
| 168 | Pervaporation in chemical analysis. <i>Journal of Chromatography A</i> , 2010 , 1217, 2736-46 | 4.5 | 37 |
| 167 | Micro-scale membrane extraction of glyphosate and aminomethylphosphonic acid in water followed by high-performance liquid chromatography and post-column derivatization with fluorescence detector. <i>Journal of Chromatography A</i> , 2008 , 1189, 483-92 | 4.5 | 37 |
| 166 | Electro-catalytic activity of multiwall carbon nanotube-metal (Pt or Pd) nanohybrid materials synthesized using microwave-induced reactions and their possible use in fuel cells. <i>Electrochimica Acta</i> , 2012 , 83, 40-46 | 6.7 | 36 |
| 165 | Carbon nanotube mediated microscale membrane extraction. <i>Journal of Chromatography A</i> , 2008 , 1211, 43-8 | 4.5 | 36 |
| 164 | Flexible zinc-carbon batteries with multiwalled carbon nanotube/conductive polymer cathode matrix. <i>Journal of Power Sources</i> , 2013 , 237, 210-214 | 8.9 | 35 |
| 163 | Carbon Nanotube Immobilized Composite Hollow Fiber Membranes for Pervaporative Removal of Volatile Organics from Water. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 16351-16356 | 3.8 | 35 |
| 162 | A sol-gel immobilization of nano and micron size sorbents in poly(dimethylsiloxane) (PDMS) microchannels for microscale solid phase extraction (SPE). <i>Analytica Chimica Acta</i> , 2005 , 546, 22-29 | 6.6 | 35 |
| 161 | Water defluoridation using a nanostructured diatom-ZrO ₂ composite synthesized from algal biomass. <i>Journal of Colloid and Interface Science</i> , 2015 , 450, 239-245 | 9.3 | 33 |
| 160 | Development of flexible zinc-air battery with nanocomposite electrodes and a novel separator. <i>Journal of Energy Chemistry</i> , 2017 , 26, 129-138 | 12 | 33 |
| 159 | A microfluidic hollow fiber membrane extractor for arsenic(V) detection. <i>Analytica Chimica Acta</i> , 2008 , 607, 45-9 | 6.6 | 32 |
| 158 | Stabilizing dispersions of hydrophobic drug molecules using cellulose ethers during anti-solvent synthesis of micro-particulates. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009 , 70, 7-14 | 6 | 31 |
| 157 | Continuous, on-line monitoring of haloacetic acids via membrane extraction. <i>Journal of Chromatography A</i> , 2005 , 1089, 39-44 | 4.5 | 31 |
| 156 | Microwave-Induced Desalination via Direct Contact Membrane Distillation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 626-632 | 8.3 | 31 |
| 155 | Simultaneous extraction and concentration in carbon nanotube immobilized hollow fiber membranes. <i>Analytical Chemistry</i> , 2010 , 82, 5561-7 | 7.8 | 30 |

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| 154 | Carbon nanotubes as sorbents for the gas phase preconcentration of semivolatile organics in a microtrap. <i>Analyst, The</i> , 2008 , 133, 1076-82 | 5 | 30 |
| 153 | Microwave synthesis of highly oxidized and defective carbon nanotubes for enhancing the performance of supercapacitors. <i>Carbon</i> , 2015 , 91, 103-113 | 10.4 | 29 |
| 152 | Functionalized nanodiamond as a charge transporter in organic solar cells. <i>Solar Energy</i> , 2013 , 91, 204-218 | 11.8 | 29 |
| 151 | Effect of carbon nanoparticles on renal epithelial cell structure, barrier function, and protein expression. <i>Nanotoxicology</i> , 2011 , 5, 354-71 | 5.3 | 29 |
| 150 | Stabilizing single-walled carbon nanotubes by removal of residual metal catalysts. <i>Chemical Physics Letters</i> , 2008 , 459, 149-152 | 2.5 | 29 |
| 149 | Simultaneous extraction and concentration by on-line hollow fiber membrane extraction. <i>Analytical Chemistry</i> , 2003 , 75, 6355-60 | 7.8 | 29 |
| 148 | Effects of anodic oxidation of a substoichiometric titanium dioxide reactive electrochemical membrane on algal cell destabilization and lipid extraction. <i>Bioresource Technology</i> , 2016 , 203, 112-7 | 11 | 28 |
| 147 | Nanostructured Diatom-ZrO composite as a selective and highly sensitive enzyme free electrochemical sensor for detection of methyl parathion. <i>Sensors and Actuators B: Chemical</i> , 2019 , 288, 611-617 | 8.5 | 27 |
| 146 | Fullerene-multiwalled carbon nanotube complexes for bulk heterojunction photovoltaic cells. <i>Applied Physics Letters</i> , 2010 , 96, 143303 | 3.4 | 27 |
| 145 | Photosensitized Singlet Oxygen Production upon Two-Photon Excitation of Single-Walled Carbon Nanotubes and Their Functionalized Analogs. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 5182-8185 | 3.8 | 24 |
| 144 | Enhanced membrane distillation of organic solvents from their aqueous mixtures using a carbon nanotube immobilized membrane. <i>Journal of Membrane Science</i> , 2018 , 568, 134-140 | 9.6 | 24 |
| 143 | Oxidation debris in microwave functionalized carbon nanotubes: Chemical and biological effects. <i>Carbon</i> , 2014 , 68, 678-686 | 10.4 | 23 |
| 142 | Aggregation behavior of nanodiamonds and their functionalized analogs in an aqueous environment. <i>Environmental Sciences: Processes and Impacts</i> , 2014 , 16, 518-23 | 4.3 | 23 |
| 141 | On-line membrane extraction liquid chromatography for monitoring semi-volatile organics in aqueous matrices. <i>Journal of Chromatography A</i> , 2000 , 904, 189-96 | 4.5 | 23 |
| 140 | Synthesis of diatom-FeOx composite for removing trace arsenic to meet drinking water standards. <i>Journal of Colloid and Interface Science</i> , 2015 , 457, 169-73 | 9.3 | 22 |
| 139 | Microtrap modulated flame ionization detector for on-line monitoring of methane. <i>Journal of Chromatography A</i> , 2005 , 1072, 243-8 | 4.5 | 22 |
| 138 | Characteristics of on-line membrane extraction microtrap GC system as applied to air and water monitoring. <i>Journal of Separation Science</i> , 1996 , 8, 21-27 | | 22 |
| 137 | Size dependent aqueous dispersibility of carboxylated multiwall carbon nanotubes. <i>Journal of Environmental Monitoring</i> , 2012 , 14, 2772-9 | | 21 |

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| 136 | Carbon nanotube-zirconium dioxide hybrid for defluoridation of water. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 3552-9 | 1.3 | 21 |
| 135 | Immobilization of Graphene Oxide on the Permeate Side of a Membrane Distillation Membrane to Enhance Flux. <i>Membranes</i> , 2018 , 8, | 3.8 | 21 |
| 134 | Microwave-induced rapid nanocomposite synthesis using dispersed single-wall carbon nanotubes as the nuclei. <i>Journal of Materials Science</i> , 2009 , 44, 1245-1250 | 4.3 | 20 |
| 133 | Barrier film protected, and mixed solvent optimized micro-scale membrane extraction of methyl carbamate pesticides. <i>Journal of Chromatography A</i> , 2007 , 1154, 60-5 | 4.5 | 20 |
| 132 | Gas injection membrane extraction for fast on-line analysis using GC detection. <i>Analytical Chemistry</i> , 2001 , 73, 5462-7 | 7.8 | 20 |
| 131 | Effects of multiwalled carbon nanotube surface modification and purification on bovine serum albumin binding and biological responses. <i>Journal of Nanomaterials</i> , 2016 , 2016, | 3.2 | 19 |
| 130 | Formation of stainless steel-carbon nanotube composites using a scalable chemical vapor infiltration process. <i>Journal of Materials Science</i> , 2013 , 48, 1387-1395 | 4.3 | 19 |
| 129 | Fabrication and characterization of carbon nanotubes immobilized in porous polymeric membranes. <i>Journal of Materials Chemistry</i> , 2009 , 19, 3713 | | 19 |
| 128 | Development of pulse introduction membrane extraction for analysis of volatile organic compounds in individual aqueous samples, and for continuous on-line monitoring. <i>Journal of Chromatography A</i> , 1998 , 826, 39-47 | 4.5 | 19 |
| 127 | The Effects of Varying Degree of MWCNT Carboxylation on Bioactivity in Various In Vivo and In Vitro Exposure Models. <i>International Journal of Molecular Sciences</i> , 2018 , 19, | 6.3 | 18 |
| 126 | Microscale membrane extraction of diverse antibiotics from water. <i>Analytica Chimica Acta</i> , 2009 , 653, 116-20 | 6.6 | 18 |
| 125 | Development of a total analytical system by interfacing membrane extraction, pervaporation and high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2005 , 1068, 237-42 | 4.5 | 18 |
| 124 | Selective hydrophilization of the permeate surface to enhance flux in membrane distillation. <i>Separation and Purification Technology</i> , 2016 , 170, 427-433 | 8.3 | 17 |
| 123 | Detonation Nanodiamonds and Carbon Nanotubes as Reinforcements in Epoxy Composites: A Comparative Study. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2013 , 4, | | 17 |
| 122 | Poly(acrylamide-co-acrylic acid) hydrophilization of porous polypropylene membrane for dehumidification. <i>Separation and Purification Technology</i> , 2013 , 107, 54-60 | 8.3 | 17 |
| 121 | Microwave-assisted solid-state grafting of multi-walled carbon nanotubes on polyurethane for the synthesis of a composite with optical limiting properties. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6568 | | 17 |
| 120 | Measurement of nitrophenols in air samples by impinger sampling and supported liquid membrane micro-extraction. <i>Analytica Chimica Acta</i> , 2007 , 583, 10-4 | 6.6 | 17 |
| 119 | Selective self-assembly of single walled carbon nanotubes in long steel tubing for chemical separations. <i>Journal of Materials Chemistry</i> , 2006 , 16, 2890 | | 17 |

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| 118 | Breakthrough and desorption characteristics of a microtrap. <i>Journal of Separation Science</i> , 2000 , 12, 267-275 | 17 |
| 117 | High-Capacity Thermal Desorption Modulators for Gas Chromatography. <i>Journal of Chromatographic Science</i> , 1988 , 26, 620-623 | 1.4 17 |
| 116 | Functionalized carbon nanotube immobilized membrane for low temperature ammonia removal via membrane distillation. <i>Separation and Purification Technology</i> , 2020 , 235, 116188 | 8.3 17 |
| 115 | Variation in chemical, colloidal and electrochemical properties of carbon nanotubes with the degree of carboxylation. <i>Journal of Nanoparticle Research</i> , 2017 , 19, 1 | 2.3 16 |
| 114 | Methane preconcentration in a microtrap using multiwalled carbon nanotubes as sorbents. <i>Analytica Chimica Acta</i> , 2010 , 677, 50-4 | 6.6 16 |
| 113 | A Sequential Valve-Microtrap Injection System for Continuous, On-Line Gas Chromatographic Analysis at Trace Levels. <i>Journal of Chromatographic Science</i> , 1995 , 33, 285-289 | 1.4 16 |
| 112 | Effect of Carbon Nanotube-Metal Hybrid Particle Exposure to Freshwater Algae <i>Chlamydomonas reinhardtii</i> . <i>Scientific Reports</i> , 2018 , 8, 15301 | 4.9 16 |
| 111 | Analytical sample preparation, preconcentration and chromatographic separation on carbon nanotubes. <i>Current Opinion in Chemical Engineering</i> , 2017 , 16, 102-114 | 5.4 15 |
| 110 | Carbon nanotube enhanced membrane distillation for online preconcentration of trace pharmaceuticals in polar solvents. <i>Analyst, The</i> , 2011 , 136, 2643-8 | 5 15 |
| 109 | On-line membrane preconcentration for continuous monitoring of trace pharmaceuticals. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005 , 37, 81-6 | 3.5 15 |
| 108 | Carbon nanotube-immobilized super-absorbent membrane for harvesting water from the atmosphere. <i>Environmental Science: Water Research and Technology</i> , 2015 , 1, 753-760 | 4.2 14 |
| 107 | Nanostructured membranes in analytical chemistry. <i>TrAC - Trends in Analytical Chemistry</i> , 2013 , 45, 248-266 | 3.6 14 |
| 106 | Development of Membrane Purge and Trap for Measurement of Volatile Organics in Water. <i>Analytical Letters</i> , 1998 , 31, 367-379 | 2.2 14 |
| 105 | On-site and on-line analysis of chlorinated solvents in ground water using pulse introduction membrane extraction gas chromatography (PIME-GC). <i>Journal of Separation Science</i> , 2001 , 24, 599-605 | 3.4 14 |
| 104 | Evolution and kinetics of volatile organic compounds generated during low-temperature polymer degradation. <i>Journal of the Air and Waste Management Association</i> , 2002 , 52, 95-103 | 2.4 14 |
| 103 | Incorporation of functionalized carbon nanotubes into hydrophobic drug crystals for enhancing aqueous dissolution. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 173, 386-391 | 6 14 |
| 102 | Direct incorporation of nano graphene oxide (nGO) into hydrophobic drug crystals for enhanced aqueous dissolution. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 189, 110827 | 6 13 |
| 101 | Development of High-Capacity Periodate Battery with Three-Dimensional-Printed Casing Accommodating Replaceable Flexible Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 30257-30264 | 9.5 13 |

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|-----|---|------|----|
| 100 | Microwave induced carboxylation of nanodiamonds. <i>Diamond and Related Materials</i> , 2013 , 34, 65-69 | 3.5 | 13 |
| 99 | Solvent dispersible nanoplatinum-carbon nanotube hybrids for application in homogeneous catalysis. <i>Chemical Communications</i> , 2010 , 46, 1652-4 | 5.8 | 13 |
| 98 | Development of continuous on-line purge and trap analysis. <i>Journal of Separation Science</i> , 2006 , 29, 446-52 | 5.4 | 13 |
| 97 | Enhancing micro-scale membrane extraction by implementing a barrier film. <i>Journal of Chromatography A</i> , 2006 , 1122, 1-6 | 4.5 | 13 |
| 96 | Effect on Growth, Photosynthesis, and Oxidative Stress of Single Walled Carbon Nanotubes Exposure to Marine Alga. <i>Journal of Nanomaterials</i> , 2016 , 2016, | 3.2 | 13 |
| 95 | Ruthenium decorated carbon nanoink as highly active electrocatalyst in hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 23007-23014 | 6.7 | 13 |
| 94 | Synthesis of Carbon Nanotube Incorporated Metal Oxides for the Fabrication of Printable, Flexible Nickel-Zinc Batteries. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701036 | 4.6 | 13 |
| 93 | Microwave Induced Membrane Distillation for Enhanced Ethanol/Water Separation on a Carbon Nanotube Immobilized Membrane. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 18313-18319 | 3.9 | 12 |
| 92 | A C70-carbon nanotube complex for bulk heterojunction photovoltaic cells. <i>Applied Physics Letters</i> , 2013 , 103, 243108 | 3.4 | 12 |
| 91 | Hollow fiber membrane concentrator for on-line preconcentration. <i>Journal of Chromatography A</i> , 2004 , 1046, 11-17 | 4.5 | 12 |
| 90 | Process modeling and on-line monitoring of benzene and other species during the two-stage combustion of ethylene in air. <i>Journal of Environmental Management</i> , 2002 , 6, 359-367 | | 12 |
| 89 | Reduction of scaling in microwave induced membrane distillation on a carbon nanotube immobilized membrane. <i>Environmental Science: Water Research and Technology</i> , 2019 , 5, 1012-1021 | 4.2 | 11 |
| 88 | High capacity aqueous periodate batteries featuring a nine-electron transfer process. <i>Energy Storage Materials</i> , 2019 , 19, 206-211 | 19.4 | 11 |
| 87 | Ultra-low casting of Pt based nano-ink for electrooxidation of glycerol and ethylene glycol fuels in alkaline medium. <i>Fuel</i> , 2015 , 158, 659-663 | 7.1 | 11 |
| 86 | Development of flexible secondary alkaline battery with carbon nanotube enhanced electrodes. <i>Journal of Power Sources</i> , 2014 , 266, 296-303 | 8.9 | 11 |
| 85 | Effect of carbon nanotube functionalization in micro-solid-phase extraction (μSPE) integrated into the needle of a syringe. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 1029-39 | 4.4 | 11 |
| 84 | Carbon nanotube immobilized polar membranes for enhanced extraction of polar analytes. <i>Analyst, The</i> , 2012 , 137, 4464-8 | 5 | 11 |
| 83 | Membrane distillation as an online concentration technique: application to the determination of pharmaceutical residues in natural waters. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 400, 571-5 | 4.4 | 11 |

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|----|--|------|----|
| 82 | Microtrap interface for on-line mass spectrometric monitoring of air emissions. <i>Journal of Mass Spectrometry</i> , 1999 , 34, 478-485 | 2.2 | 11 |
| 81 | The pulmonary inflammatory response to multiwalled carbon nanotubes is influenced by gender and glutathione synthesis. <i>Redox Biology</i> , 2016 , 9, 264-275 | 11.3 | 11 |
| 80 | Carbon Nanotube Immobilized Composite Hollow Fiber Membranes for Extraction of Volatile Organics from Air. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 13231-13237 | 3.8 | 10 |
| 79 | Low temperature recovery of acetoneButanolEthanol (ABE) fermentation products via microwave induced membrane distillation on carbon nanotube immobilized membranes. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 3487-3499 | 5.8 | 10 |
| 78 | Antisolvent precipitation of hydrophobic functionalized multiwall carbon nanotubes in an aqueous environment. <i>Journal of Colloid and Interface Science</i> , 2012 , 368, 115-20 | 9.3 | 10 |
| 77 | Protein expression profiles of intestinal epithelial co-cultures: effect of functionalised carbon nanotube exposure. <i>International Journal of Biomedical Nanoscience and Nanotechnology</i> , 2013 , 3, | 0.2 | 10 |
| 76 | Nanocarbon-Immobilized Membranes for Separation of Tetrahydrofuran from Water via Membrane Distillation. <i>ACS Applied Nano Materials</i> , 2020 , 3, 6344-6353 | 5.6 | 9 |
| 75 | Novel diatom-FeOx composite as highly active catalyst in photodegradation of Rhodamine-6G. <i>Nanotechnology Reviews</i> , 2018 , 7, 247-255 | 6.3 | 9 |
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