

# Somenath Mitra

## List of Publications by Year in descending order

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229  
papers

8,321  
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41323

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62565

80  
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230  
all docs

230  
docs citations

230  
times ranked

9094  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapidly Functionalized, Water-Dispersed Carbon Nanotubes at High Concentration. Journal of the American Chemical Society, 2006, 128, 95-99.	6.6	369
2	Water Desalination Using Carbon-Nanotube-Enhanced Membrane Distillation. ACS Applied Materials & Interfaces, 2011, 3, 110-114.	4.0	259
3	A fullereneâ€“single wall carbon nanotube complex for polymer bulk heterojunction photovoltaic cells. Journal of Materials Chemistry, 2007, 17, 2406-2411.	6.7	190
4	Dispersal State of Multiwalled Carbon Nanotubes Elicits Profibrogenic Cellular Responses That Correlate with Fibrogenesis Biomarkers and Fibrosis in the Murine Lung. ACS Nano, 2011, 5, 9772-9787.	7.3	178
5	Interlaboratory Evaluation of <i>in Vitro</i> Cytotoxicity and Inflammatory Responses to Engineered Nanomaterials: The NIEHS Nano GO Consortium. Environmental Health Perspectives, 2013, 121, 683-690.	2.8	176
6	Adsorption of arsenic on multiwall carbon nanotubeâ€“zirconia nanohybrid for potential drinking water purification. Journal of Colloid and Interface Science, 2012, 375, 154-159.	5.0	172
7	Microwave-induced rapid chemical functionalization of single-walled carbon nanotubes. Carbon, 2005, 43, 1015-1020.	5.4	170
8	Facile fabrication of superior nanofiltration membranes from interfacially polymerized CNT-polymer composites. Journal of Membrane Science, 2011, 375, 81-87.	4.1	160
9	Quantitative Techniques for Assessing and Controlling the Dispersion and Biological Effects of Multiwalled Carbon Nanotubes in Mammalian Tissue Culture Cells. ACS Nano, 2010, 4, 7241-7252.	7.3	151
10	Anti-HER2 IgY antibody-functionalized single-walled carbon nanotubes for detection and selective destruction of breast cancer cells. BMC Cancer, 2009, 9, 351.	1.1	149
11	Effect of carbon nanotube (CNT) functionalization in epoxy-CNT composites. Nanotechnology Reviews, 2018, 7, 475-485.	2.6	137
12	Effect of MWCNT size, carboxylation, and purification on in vitro and in vivo toxicity, inflammation and lung pathology. Particle and Fibre Toxicology, 2013, 10, 57.	2.8	135
13	Removal of Trace Arsenic To Meet Drinking Water Standards Using Iron Oxide Coated Multiwall Carbon Nanotubes. Journal of Chemical & Engineering Data, 2011, 56, 2077-2083.	1.0	132
14	Enhanced desalination via functionalized carbon nanotube immobilized membrane in direct contact membrane distillation. Separation and Purification Technology, 2014, 136, 58-65.	3.9	132
15	Desalination across a graphene oxide membrane via direct contact membrane distillation. Desalination, 2016, 378, 37-43.	4.0	132
16	Effects of polymer wrapping and covalent functionalization on the stability of MWCNT in aqueous dispersions. Journal of Colloid and Interface Science, 2011, 355, 383-388.	5.0	125
17	Chromatography on Self-Assembled Carbon Nanotubes. Analytical Chemistry, 2005, 77, 7094-7097.	3.2	123
18	Comparison of Nanotubeâ€“Protein Corona Composition in Cell Culture Media. Small, 2013, 9, 2171-2181.	5.2	119

#	ARTICLE	IF	CITATIONS
19	Fabrication of High-Performance Flexible Alkaline Batteries by Implementing Multiwalled Carbon Nanotubes and Copolymer Separator. <i>Advanced Materials</i> , 2014, 26, 970-976.	11.1	111
20	Cytotoxicity effects of water dispersible oxidized multiwalled carbon nanotubes on marine alga, <i>Dunaliella tertiolecta</i> . <i>Aquatic Toxicology</i> , 2010, 100, 194-201.	1.9	108
21	Stepwise Reduction of Graphene Oxide (GO) and Its Effects on Chemical and Colloidal Properties. <i>Scientific Reports</i> , 2018, 8, 10083.	1.6	100
22	Mechanism of carbon nanotube growth by CVD. <i>Chemical Physics Letters</i> , 2006, 424, 126-132.	1.2	97
23	Gas Chromatography on Self-Assembled, Single-Walled Carbon Nanotubes. <i>Analytical Chemistry</i> , 2006, 78, 2064-2070.	3.2	91
24	Kinetics of carbon nanotube oxidation. <i>Journal of Materials Chemistry</i> , 2007, 17, 619-623.	6.7	90
25	Flux enhancement in direct contact membrane distillation by implementing carbon nanotube immobilized PTFE membrane. <i>Separation and Purification Technology</i> , 2016, 161, 136-143.	3.9	88
26	Self-Assembly of Carbon Nanotubes via Ethanol Chemical Vapor Deposition for the Synthesis of Gas Chromatography Columns. <i>Analytical Chemistry</i> , 2010, 82, 5184-5188.	3.2	86
27	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, 63-69.	1.8	85
28	Preconcentration of Volatile Organics on Self-Assembled, Carbon Nanotubes in a Microtrap. <i>Analytical Chemistry</i> , 2005, 77, 1183-1187.	3.2	81
29	Microfluidic supported liquid membrane extraction. <i>Analytica Chimica Acta</i> , 2005, 543, 92-98.	2.6	80
30	Automated, on-line membrane extraction. <i>Journal of Chromatography A</i> , 2007, 1152, 199-214.	1.8	76
31	Fast Microwave-Assisted Purification, Functionalization and Dispersion of Multi-Walled Carbon Nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 5770-5775.	0.9	72
32	Patterns and sources of polycyclic aromatic hydrocarbons and their derivatives in indoor air. <i>Atmospheric Environment</i> , 1995, 29, 3345-3356.	1.9	68
33	Enhanced desalination using carboxylated carbon nanotube immobilized membranes. <i>Separation and Purification Technology</i> , 2013, 120, 373-377.	3.9	67
34	Carbon nanotubes as the sorbent for integrating $\mu$ -solid phase extraction within the needle of a syringe. <i>Journal of Chromatography A</i> , 2009, 1216, 2270-2274.	1.8	65
35	Instillation versus Inhalation of Multiwalled Carbon Nanotubes: Exposure-Related Health Effects, Clearance, and the Role of Particle Characteristics. <i>ACS Nano</i> , 2014, 8, 8911-8931.	7.3	64
36	Microtrapping characteristics of single and multi-walled carbon nanotubes. <i>Journal of Chromatography A</i> , 2008, 1185, 161-166.	1.8	62

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37	Altering the polarity of self-assembled carbon nanotubes stationary phase via covalent functionalization. <i>RSC Advances</i> , 2011, 1, 685.	1.7	62
38	Scaled-up self-assembly of carbon nanotubes inside long stainless steel tubing. <i>Carbon</i> , 2006, 44, 1235-1242.	5.4	61
39	A Bilayered Structure Comprised of Functionalized Carbon Nanotubes for Desalination by Membrane Distillation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 19507-19513.	4.0	61
40	Rapid, low temperature microwave synthesis of novel carbon nanotube-silicon carbide composite. <i>Carbon</i> , 2006, 44, 2804-2808.	5.4	60
41	Modifying the sorption properties of multi-walled carbon nanotubes via covalent functionalization. <i>Analyst</i> , 2009, 134, 1928.	1.7	60
42	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.	1.8	58
43	Microwave-Induced Controlled Purification of Single-Walled Carbon Nanotubes without Sidewall Functionalization. <i>Advanced Functional Materials</i> , 2007, 17, 3946-3951.	7.8	58
44	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.	3.9	58
45	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.	3.9	58
46	Continuous gas chromatographic monitoring of low concentration sample streams using an on-line microtrap. <i>Journal of Chromatography A</i> , 1993, 648, 415-421.	1.8	57
47	Atomistic simulation study of surfactant and polymer interactions on the surface of a fenofibrate crystal. <i>European Journal of Pharmaceutical Sciences</i> , 2011, 42, 452-461.	1.9	53
48	Micropreconcentration units based on carbon nanotubes (CNT). <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 75-89.	1.9	51
49	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.	1.8	50
50	An Empirical Method to Predict Solubility in Supercritical Fluids. <i>Journal of Chromatographic Science</i> , 1991, 29, 305-309.	0.7	49
51	Nanodiamond immobilized membranes for enhanced desalination via membrane distillation. <i>Desalination</i> , 2014, 341, 115-119.	4.0	48
52	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.	1.8	47
53	Two-stage microtrap as an injection device for continuous on-line gas chromatographic monitoring. <i>Journal of Chromatography A</i> , 1998, 805, 169-176.	1.8	46
54	A microfabricated microconcentrator for sensors and gas chromatography. <i>Journal of Chromatography A</i> , 2003, 996, 1-11.	1.8	46

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55	Solubility and partial molar volumes of heavy aromatic hydrocarbons in super critical carbon dioxide. <i>Journal of Chemical &amp; Engineering Data</i> , 1988, 33, 35-37.	1.0	44
56	Nanostructured Diatom-ZrO <sub>2</sub> 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.	4.0	44
57	Improved optical limiting in dispersible carbon nanotubes and their metal oxide hybrids. <i>Carbon</i> , 2011, 49, 4767-4773.	5.4	42
58	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, 483-492.	1.8	41
59	Development of flexible zinc-air battery with nanocomposite electrodes and a novel separator. <i>Journal of Energy Chemistry</i> , 2017, 26, 129-138.	7.1	40
60	Microwave-Induced Desalination via Direct Contact Membrane Distillation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 626-632.	3.2	40
61	Pervaporation in chemical analysis. <i>Journal of Chromatography A</i> , 2010, 1217, 2736-2746.	1.8	39
62	Processing of fullerene-single wall carbon nanotube complex for bulk heterojunction photovoltaic cells. <i>Applied Physics Letters</i> , 2007, 91, 253112.	1.5	38
63	Carbon nanotube mediated microscale membrane extraction. <i>Journal of Chromatography A</i> , 2008, 1211, 43-48.	1.8	38
64	Functionalized carbon nanotube immobilized membrane for low temperature ammonia removal via membrane distillation. <i>Separation and Purification Technology</i> , 2020, 235, 116188.	3.9	38
65	A microfluidic hollow fiber membrane extractor for arsenic(V) detection. <i>Analytica Chimica Acta</i> , 2008, 607, 45-49.	2.6	37
66	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.	2.6	37
67	Flexible zinc-carbon batteries with multiwalled carbon nanotube/conductive polymer cathode matrix. <i>Journal of Power Sources</i> , 2013, 237, 210-214.	4.0	37
68	Water defluoridation using a nanostructured diatom-ZrO <sub>2</sub> composite synthesized from algal Biomass. <i>Journal of Colloid and Interface Science</i> , 2015, 450, 239-245.	5.0	37
69	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, 112-117.	4.8	37
70	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.	2.6	36
71	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.	1.5	36
72	Microwave synthesis of highly oxidized and defective carbon nanotubes for enhancing the performance of supercapacitors. <i>Carbon</i> , 2015, 91, 103-113.	5.4	35

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73	Continuous, on-line monitoring of haloacetic acids via membrane extraction. Journal of Chromatography A, 2005, 1089, 39-44.	1.8	34
74	Enhanced membrane distillation of organic solvents from their aqueous mixtures using a carbon nanotube immobilized membrane. Journal of Membrane Science, 2018, 568, 134-140.	4.1	34
75	Simultaneous Extraction and Concentration by On-Line Hollow Fiber Membrane Extraction. Analytical Chemistry, 2003, 75, 6355-6360.	3.2	33
76	Effect of carbon nanoparticles on renal epithelial cell structure, barrier function, and protein expression. Nanotoxicology, 2011, 5, 354-371.	1.6	33
77	Stabilizing single-walled carbon nanotubes by removal of residual metal catalysts. Chemical Physics Letters, 2008, 459, 149-152.	1.2	32
78	Carbon nanotubes as sorbents for the gas phase preconcentration of semivolatile organics in a microtrap. Analyst, The, 2008, 133, 1076.	1.7	32
79	Stabilizing dispersions of hydrophobic drug molecules using cellulose ethers during anti-solvent synthesis of micro-particulates. Colloids and Surfaces B: Biointerfaces, 2009, 70, 7-14.	2.5	32
80	Functionalized nanodiamond as a charge transporter in organic solar cells. Solar Energy, 2013, 91, 204-211.	2.9	32
81	Simultaneous Extraction and Concentration in Carbon Nanotube Immobilized Hollow Fiber Membranes. Analytical Chemistry, 2010, 82, 5561-5567.	3.2	31
82	Immobilization of Graphene Oxide on the Permeate Side of a Membrane Distillation Membrane to Enhance Flux. Membranes, 2018, 8, 63.	1.4	31
83	Fullerene-multiwalled carbon nanotube complexes for bulk heterojunction photovoltaic cells. Applied Physics Letters, 2010, 96, 143303.	1.5	30
84	Aggregation behavior of nanodiamonds and their functionalized analogs in an aqueous environment. Environmental Sciences: Processes and Impacts, 2014, 16, 518-523.	1.7	30
85	On-line membrane extraction liquid chromatography for monitoring semi-volatile organics in aqueous matrices. Journal of Chromatography A, 2000, 904, 189-196.	1.8	28
86	Photosensitized Singlet Oxygen Production upon Two-Photon Excitation of Single-Walled Carbon Nanotubes and Their Functionalized Analogues. Journal of Physical Chemistry C, 2009, 113, 5182-5185.	1.5	28
87	Synthesis of diatom-FeOx composite for removing trace arsenic to meet drinking water standards. Journal of Colloid and Interface Science, 2015, 457, 169-173.	5.0	28
88	Microwave Induced Membrane Distillation for Enhanced Ethanol-Water Separation on a Carbon Nanotube Immobilized Membrane. Industrial & Engineering Chemistry Research, 2019, 58, 18313-18319.	1.8	28
89	Oxidation debris in microwave functionalized carbon nanotubes: Chemical and biological effects. Carbon, 2014, 68, 678-686.	5.4	26
90	Size dependent aqueous dispersibility of carboxylated multiwall carbon nanotubes. Journal of Environmental Monitoring, 2012, 14, 2772.	2.1	25

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91	Poly(acrylamide-co-acrylic acid) hydrophilization of porous polypropylene membrane for dehumidification. <i>Separation and Purification Technology</i> , 2013, 107, 54-60.	3.9	25
92	Microtrap modulated flame ionization detector for on-line monitoring of methane. <i>Journal of Chromatography A</i> , 2005, 1072, 243-248.	1.8	24
93	Carbon Nanotube-Zirconium Dioxide Hybrid for Defluoridation of Water. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 3552-3559.	0.9	24
94	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.	1.0	23
95	Formation of stainless steel-carbon nanotube composites using a scalable chemical vapor infiltration process. <i>Journal of Materials Science</i> , 2013, 48, 1387-1395.	1.7	23
96	Low temperature recovery of acetone-butanol-ethanol (ABE) fermentation products via microwave induced membrane distillation on carbon nanotube immobilized membranes. <i>Sustainable Energy and Fuels</i> , 2020, 4, 3487-3499.	2.5	23
97	Nanocarbon-Immobilized Membranes for Separation of Tetrahydrofuran from Water via Membrane Distillation. <i>ACS Applied Nano Materials</i> , 2020, 3, 6344-6353.	2.4	23
98	Synergistic effect of air sparging in direct contact membrane distillation to control membrane fouling and enhancing flux. <i>Separation and Purification Technology</i> , 2021, 272, 118681.	3.9	23
99	Measurement of nitrophenols in air samples by impinger sampling and supported liquid membrane micro-extraction. <i>Analytica Chimica Acta</i> , 2007, 583, 10-14.	2.6	22
100	Detonation Nanodiamonds and Carbon Nanotubes as Reinforcements in Epoxy Composites: A Comparative Study. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2013, 4, .	0.8	22
101	Selective hydrophilization of the permeate surface to enhance flux in membrane distillation. <i>Separation and Purification Technology</i> , 2016, 170, 427-433.	3.9	22
102	Effects of Multiwalled Carbon Nanotube Surface Modification and Purification on Bovine Serum Albumin Binding and Biological Responses. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-10.	1.5	22
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.	2.5	22
104	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.	1.8	21
105	Gas Injection Membrane Extraction for Fast On-Line Analysis Using GC Detection. <i>Analytical Chemistry</i> , 2001, 73, 5462-5467.	3.2	21
106	Barrier film protected, and mixed solvent optimized micro-scale membrane extraction of methyl carbamate pesticides. <i>Journal of Chromatography A</i> , 2007, 1154, 60-65.	1.8	21
107	Microscale membrane extraction of diverse antibiotics from water. <i>Analytica Chimica Acta</i> , 2009, 653, 116-120.	2.6	21
108	Microwave-induced rapid nanocomposite synthesis using dispersed single-wall carbon nanotubes as the nuclei. <i>Journal of Materials Science</i> , 2009, 44, 1245-1250.	1.7	21

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109	Fabrication and characterization of carbon nanotubes immobilized in porous polymeric membranes. <i>Journal of Materials Chemistry</i> , 2009, 19, 3713.	6.7	21
110	Effect of Carbon Nanotube-Metal Hybrid Particle Exposure to Freshwater Algae <i>Chlamydomonas reinhardtii</i> . <i>Scientific Reports</i> , 2018, 8, 15301.	1.6	21
111	Nanocarbon immobilized membranes for generating bacteria and endotoxin free water via membrane distillation. <i>Separation and Purification Technology</i> , 2021, 259, 118133.	3.9	21
112	Development of a total analytical system by interfacing membrane extraction, pervaporation and high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2005, 1068, 237-242.	1.8	20
113	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.	6.7	20
114	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, 354.	1.8	20
115	Effect on Growth, Photosynthesis, and Oxidative Stress of Single Walled Carbon Nanotubes Exposure to Marine Alga <i>Dunaliella tertiolecta</i> . <i>Journal of Nanomaterials</i> , 2016, 2016, 1-9.	1.5	19
116	Analytical sample preparation, preconcentration and chromatographic separation on carbon nanotubes. <i>Current Opinion in Chemical Engineering</i> , 2017, 16, 102-114.	3.8	19
117	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.	0.7	18
118	On-line membrane preconcentration for continuous monitoring of trace pharmaceuticals. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005, 37, 81-86.	1.4	18
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.	6.7	18
120	Nanostructured membranes in analytical chemistry. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 45, 248-263.	5.8	18
121	Carbon nanotube-immobilized super-absorbent membrane for harvesting water from the atmosphere. <i>Environmental Science: Water Research and Technology</i> , 2015, 1, 753-760.	1.2	18
122	Variation in chemical, colloidal and electrochemical properties of carbon nanotubes with the degree of carboxylation. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	0.8	18
123	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.	2.5	18
124	High-Capacity Thermal Desorption Modulators for Gas Chromatography. <i>Journal of Chromatographic Science</i> , 1988, 26, 620-623.	0.7	17
125	Breakthrough and desorption characteristics of a microtrap. <i>Journal of Separation Science</i> , 2000, 12, 267-275.	1.0	17
126	Methane preconcentration in a microtrap using multiwalled carbon nanotubes as sorbents. <i>Analytica Chimica Acta</i> , 2010, 677, 50-54.	2.6	17



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127	Carbon nanotube enhanced membrane distillation for online preconcentration of trace pharmaceuticals in polar solvents. <i>Analyst, The</i> , 2011, 136, 2643.	1.7	17
128	High capacity aqueous periodate batteries featuring a nine-electron transfer process. <i>Energy Storage Materials</i> , 2019, 19, 206-211.	9.5	17
129	Antiviral properties of select carbon nanostructures and their functionalized analogs. <i>Materials Today Communications</i> , 2021, 29, 102743.	0.9	17
130	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.	0.9	16
131	Microwave induced carboxylation of nanodiamonds. <i>Diamond and Related Materials</i> , 2013, 34, 65-69.	1.8	16
132	Ruthenium decorated carbon nanoink as highly active electrocatalyst in hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 23007-23014.	3.8	16
133	Development of High-Capacity Periodate Battery with Three-Dimensional-Printed Casing Accommodating Replaceable Flexible Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 30257-30264.	4.0	16
134	Scaling Reduction in Carbon Nanotube-Immobilized Membrane during Membrane Distillation. <i>Water (Switzerland)</i> , 2019, 11, 2588.	1.2	16
135	Development of Membrane Purge and Trap for Measurement of Volatile Organics in Water. <i>Analytical Letters</i> , 1998, 31, 367-379.	1.0	15
136	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.	1.3	15
137	Enhancing micro-scale membrane extraction by implementing a barrier film. <i>Journal of Chromatography A</i> , 2006, 1122, 1-6.	1.8	14
138	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.	3.4	14
139	Synthesis of Carbon Nanotube Incorporated Metal Oxides for the Fabrication of Printable, Flexible Nickel-Zinc Batteries. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701036.	1.9	14
140	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.	1.2	14
141	Pattern of polynuclear aromatic hydrocarbons in indoor air: Exploratory principal component analysis. <i>Environment International</i> , 1992, 18, 477-487.	4.8	13
142	Development of continuous on-line purge and trap analysis. <i>Journal of Separation Science</i> , 2006, 29, 446-452.	1.3	13
143	Solvent dispersible nanoplatinum-carbon nanotube hybrids for application in homogeneous catalysis. <i>Chemical Communications</i> , 2010, 46, 1652.	2.2	13
144	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, 571-575.	1.9	13

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145	A C70-carbon nanotube complex for bulk heterojunction photovoltaic cells. Applied Physics Letters, 2013, 103, .	1.5	13
146	Process modeling and on-line monitoring of benzene and other species during the two-stage combustion of ethylene in air. Journal of Environmental Management, 2002, 6, 359-367.	1.7	12
147	Hollow fiber membrane concentrator for on-line preconcentration. Journal of Chromatography A, 2004, 1046, 11-17.	1.8	12
148	Carbon nanotube immobilized polar membranes for enhanced extraction of polar analytes. Analyst, The, 2012, 137, 4464.	1.7	12
149	Effect of carbon nanotube functionalization in micro-solid-phase extraction ( $\mu$ -SPE) integrated into the needle of a syringe. Analytical and Bioanalytical Chemistry, 2012, 402, 1029-1039.	1.9	12
150	Length reduction of multi-walled carbon nanotubes via high energy ultrasonication and its effect on their dispersibility. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	12
151	Development of flexible secondary alkaline battery with carbon nanotube enhanced electrodes. Journal of Power Sources, 2014, 266, 296-303.	4.0	12
152	The pulmonary inflammatory response to multiwalled carbon nanotubes is influenced by gender and glutathione synthesis. Redox Biology, 2016, 9, 264-275.	3.9	12
153	Enrichment of 1, 4-dioxane from water by sweep gas membrane distillation on nano-carbon immobilized membranes. Separation and Purification Technology, 2021, 276, 119360.	3.9	12
154	Microtrap interface for on-line mass spectrometric monitoring of air emissions. Journal of Mass Spectrometry, 1999, 34, 478-485.	0.7	11
155	Protein expression profiles of intestinal epithelial co-cultures: effect of functionalised carbon nanotube exposure. International Journal of Biomedical Nanoscience and Nanotechnology, 2013, 3, 127.	0.1	11
156	Novel diatom-FeO <sub>x</sub> composite as highly active catalyst in photodegradation of Rhodamine-6G. Nanotechnology Reviews, 2018, 7, 247-255.	2.6	11
157	Dry reforming of methane over palladium-platinum on carbon nanotube catalyst. Chemical Engineering Communications, 2018, 205, 888-896.	1.5	11
158	Communication—Electrochemical Impedance Signature of a Non-Planar, Interdigitated, Flow-Through, Porous, Carbon-Based Microelectrode. Journal of the Electrochemical Society, 2019, 166, B1669-B1672.	1.3	11
159	Fabrication of supercapacitors and flexible electrodes using biosilica from cultured diatoms. Materials Today Energy, 2019, 11, 166-173.	2.5	11
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