

Emine Karaman

List of Publications by Year in descending order

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92
papers

2,169
citations

331670

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h-index

254184

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94
all docs

94
docs citations

94
times ranked

3175
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapidly Functionalized, Water-Dispersed Carbon Nanotubes at High Concentration. <i>Journal of the American Chemical Society</i> , 2006, 128, 95-99.	13.7	369
2	A fullereneâ€“single wall carbon nanotube complex for polymer bulk heterojunction photovoltaic cells. <i>Journal of Materials Chemistry</i> , 2007, 17, 2406-2411.	6.7	190
3	Effect of carbon nanotube (CNT) functionalization in epoxy-CNT composites. <i>Nanotechnology Reviews</i> , 2018, 7, 475-485.	5.8	137
4	Fabrication of Highâ€“Performance Flexible Alkaline Batteries by Implementing Multiwalled Carbon Nanotubes and Copolymer Separator. <i>Advanced Materials</i> , 2014, 26, 970-976.	21.0	111
5	Stepwise Reduction of Graphene Oxide (GO) and Its Effects on Chemical and Colloidal Properties. <i>Scientific Reports</i> , 2018, 8, 10083.	3.3	100
6	Altering the polarity of self-assembled carbon nanotubes stationary phase via covalent functionalization. <i>RSC Advances</i> , 2011, 1, 685.	3.6	62
7	A Bilayered Structure Comprised of Functionalized Carbon Nanotubes for Desalination by Membrane Distillation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 19507-19513.	8.0	61
8	Nanostructured Diatom-ZrO ₂ 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.	7.8	44
9	Microwave-Induced Desalination via Direct Contact Membrane Distillation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 626-632.	6.7	40
10	Principles of Extraction and the Extraction of Semivolatle Organics from Liquids. , 2003, , 37-138.		39
11	Flexible zincâ€“carbon batteries with multiwalled carbon nanotube/conductive polymer cathode matrix. <i>Journal of Power Sources</i> , 2013, 237, 210-214.	7.8	37
12	Water defluoridation using a nanostructured diatomâ€“ZrO ₂ composite synthesized from algal Biomass. <i>Journal of Colloid and Interface Science</i> , 2015, 450, 239-245.	9.4	37
13	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.	9.6	37
14	Immobilization of Graphene Oxide on the Permeate Side of a Membrane Distillation Membrane to Enhance Flux. <i>Membranes</i> , 2018, 8, 63.	3.0	31
15	Synthesis of diatomâ€“FeOx composite for removing trace arsenic to meet drinking water standards. <i>Journal of Colloid and Interface Science</i> , 2015, 457, 169-173.	9.4	28
16	Microwave Induced Membrane Distillation for Enhanced Ethanolâ€“Water Separation on a Carbon Nanotube Immobilized Membrane. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 18313-18319.	3.7	28
17	Oxidation debris in microwave functionalized carbon nanotubes: Chemical and biological effects. <i>Carbon</i> , 2014, 68, 678-686.	10.3	26
18	Sample Preparation for Microscopic and Spectroscopic Characterization of Solid Surfaces and Films. , 2003, , 377-411.		24

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19	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
20	Formation of stainless steel-carbon nanotube composites using a scalable chemical vapor infiltration process. <i>Journal of Materials Science</i> , 2013, 48, 1387-1395.	3.7	23
21	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.	4.9	23
22	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
23	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.	2.7	22
24	Incorporation of functionalized carbon nanotubes into hydrophobic drug crystals for enhancing aqueous dissolution. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 173, 386-391.	5.0	22
25	Microwave-induced rapid nanocomposite synthesis using dispersed single-wall carbon nanotubes as the nuclei. <i>Journal of Materials Science</i> , 2009, 44, 1245-1250.	3.7	21
26	Fabrication and characterization of carbon nanotubes immobilized in porous polymeric membranes. <i>Journal of Materials Chemistry</i> , 2009, 19, 3713.	6.7	21
27	Effect of Carbon Nanotube-Metal Hybrid Particle Exposure to Freshwater Algae <i>Chlamydomonas reinhardtii</i> . <i>Scientific Reports</i> , 2018, 8, 15301.	3.3	21
28	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
29	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.	4.1	20
30	Extraction of Semivolatile Organic Compounds from Solid Matrices. , 2003, , 139-182.		19
31	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.	2.7	19
32	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	18
33	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
34	Carbon nanotube-immobilized super-absorbent membrane for harvesting water from the atmosphere. <i>Environmental Science: Water Research and Technology</i> , 2015, 1, 753-760.	2.4	18
35	Variation in chemical, colloidal and electrochemical properties of carbon nanotubes with the degree of carboxylation. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	18
36	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.	5.0	18

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37	Breakthrough and desorption characteristics of a microtrap. <i>Journal of Separation Science</i> , 2000, 12, 267-275.	1.0	17
38	High capacity aqueous periodate batteries featuring a nine-electron transfer process. <i>Energy Storage Materials</i> , 2019, 19, 206-211.	18.0	17
39	Sample Preparation: An Analytical Perspective. , 2003, , 1-36.		16
40	Preparation of Samples for Metals Analysis. , 2003, , 227-270.		16
41	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.	8.0	16
42	Development of Membrane Purge and Trap for Measurement of Volatile Organics in Water. <i>Analytical Letters</i> , 1998, 31, 367-379.	1.8	15
43	Synthesis of Carbon Nanotube Incorporated Metal Oxides for the Fabrication of Printable, Flexible Nickel-Zinc Batteries. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701036.	3.7	14
44	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.	2.4	14
45	Length reduction of multi-walled carbon nanotubes via high energy ultrasonication and its effect on their dispersibility. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	12
46	The pulmonary inflammatory response to multiwalled carbon nanotubes is influenced by gender and glutathione synthesis. <i>Redox Biology</i> , 2016, 9, 264-275.	9.0	12
47	Microtrap interface for on-line mass spectrometric monitoring of air emissions. <i>Journal of Mass Spectrometry</i> , 1999, 34, 478-485.	1.6	11
48	Novel diatom-FeO _x composite as highly active catalyst in photodegradation of Rhodamine-6G. <i>Nanotechnology Reviews</i> , 2018, 7, 247-255.	5.8	11
49	Dry reforming of methane over palladium-platinum on carbon nanotube catalyst. <i>Chemical Engineering Communications</i> , 2018, 205, 888-896.	2.6	11
50	Fabrication of supercapacitors and flexible electrodes using biosilica from cultured diatoms. <i>Materials Today Energy</i> , 2019, 11, 166-173.	4.7	11
51	Controlled synthesis of reduced graphene oxide-carbon nanotube hybrids and their aqueous behavior. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	1.9	11
52	Removal and Recovery of Methyl Tertiary Butyl Ether (MTBE) from Water Using Carbon Nanotube and Graphene Oxide Immobilized Membranes. <i>Nanomaterials</i> , 2020, 10, 578.	4.1	11
53	Nano Carbon Doped Polyacrylamide Gel Electrolytes for High Performance Supercapacitors. <i>Molecules</i> , 2021, 26, 2631.	3.8	11
54	Recent Developments in Blood-Compatible Superhydrophobic Surfaces. <i>Polymers</i> , 2022, 14, 1075.	4.5	11

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55	Antisolvent precipitative immobilization of micro and nanostructured griseofulvin on laboratory cultured diatom frustules for enhanced aqueous dissolution. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 196, 111308.	5.0	10
56	Core-Shell Electrospun Fibers with an Improved Open Pore Structure for Size-Controlled Delivery of Nanoparticles. <i>ACS Applied Polymer Materials</i> , 2020, 2, 4004-4015.	4.4	10
57	Synergistic Effects of Microwave Radiation and Nanocarbon Immobilized Membranes in the Generation of Bacteria-Free Water via Membrane Distillation. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 1453-1463.	3.7	10
58	Development of Instrumentation for Continuous On-line Monitoring of Non-Methane Organic Carbon in Air Emissions. <i>Journal of the Air and Waste Management Association</i> , 1998, 48, 743-749.	1.9	9
59	Extraction of Volatile Organic Compounds from Solids and Liquids. , 2003, , 183-225.		9
60	Functionalized carbon nanotube doped gel electrolytes with enhanced mechanical and electrical properties for battery applications. <i>Materials Chemistry and Physics</i> , 2021, 264, 124448.	4.0	9
61	Enhancement of Extraction Efficiency and Reduction of Boundary Layer Effects in Pulse Introduction Membrane Extraction. <i>Analytical Chemistry</i> , 1999, 71, 4407-4412.	6.5	8
62	Microwave induced reactive base wash for the removal of oxidation debris from carboxylated carbon nanotubes. <i>Carbon</i> , 2015, 88, 233-238.	10.3	8
63	Reducing Concentration Polarization and Enhancing the Performance of Flexible Nickel-Zinc Battery Using Polytetrafluoroethylene as Electrode Additive. <i>ChemistrySelect</i> , 2018, 3, 11890-11894.	1.5	7
64	Modification of nano-silver bioactivity by adsorption on carbon nanotubes and graphene oxide. <i>Inhalation Toxicology</i> , 2018, 30, 429-438.	1.6	7
65	Nanoporous hierarchical carbon structures derived from fungal basidiocarps for high performance supercapacitors. <i>Energy Storage</i> , 2019, 1, e58.	4.3	7
66	Reduction and Elimination of Humic Acid Fouling in Air Sparged Membrane Distillation Using Nanocarbon Immobilized Membrane. <i>Molecules</i> , 2022, 27, 2896.	3.8	7
67	Application of on-line membrane extraction microtrap gas chromatography (OLMEM-GC) for continuous monitoring of VOC emission. <i>Journal of Separation Science</i> , 1998, 10, 393-399.	1.0	6
68	Stromelysin-2 (MMP-10) facilitates clearance and moderates inflammation and cell death following lung exposure to long multiwalled carbon nanotubes. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 1019-1031.	6.7	6
69	Enhanced Performance of Carbon Nanotube Immobilized Membrane for the Treatment of High Salinity Produced Water via Direct Contact Membrane Distillation. <i>Membranes</i> , 2020, 10, 325.	3.0	6
70	Dry Reforming of Methane over a Ruthenium/Carbon Nanotube Catalyst. <i>ChemEngineering</i> , 2020, 4, 16.	2.4	6
71	Simultaneous synthesis, stabilization, and self-assembly of microscale drug particles in polymer films. <i>Journal of Applied Polymer Science</i> , 2011, 120, 2082-2089.	2.6	5
72	The Effect of Functional Group Polarity in Palladium Immobilized Multiwalled Carbon Nanotube Catalysis: Application in Carbon-Carbon Coupling Reaction. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1511.	2.5	5

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73	Enhanced aqueous dissolution of hydrophobic apixaban via direct incorporation of hydrophilic nanographene oxide. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 216, 112512.	5.0	5
74	Development of printable, flexible nickel-iron batteries based on composite electrodes. <i>Energy Storage</i> , 2020, 2, e105.	4.3	4
75	Improved Electrophoretic Deposition of Vertical Single Wall Carbon Nanotubes with Nanoscopic Electrostatic Lenses. <i>Micromachines</i> , 2020, 11, 324.	2.9	4
76	Sample Preparation in DNA Analysis. , 2003, , 271-300.		3
77	Title is missing!. <i>Environmental Monitoring and Assessment</i> , 1997, 44, 529-540.	2.7	2
78	Data related to the synthesis, characterization and electrochemical performance of high capacity sodium manganese periodate electrodes. <i>Data in Brief</i> , 2019, 25, 104136.	1.0	2
79	Development of nickel-based cable batteries with carbon nanotube and polytetrafluoroethylene enhanced flexible electrodes. <i>International Journal of Energy Research</i> , 2020, 44, 4008-4014.	4.5	2
80	Computational investigation of enhanced properties in functionalized carbon nanotube doped polyvinyl alcohol gel electrolyte systems. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 21286-21294.	2.8	2
81	Hydrophilic and Functionalized Nanographene Oxide Incorporated Faster Dissolving Megestrol Acetate. <i>Molecules</i> , 2021, 26, 1972.	3.8	2
82	Development of iodate-based high oxidation state cathode for aqueous battery system. <i>Materials Chemistry and Physics</i> , 2021, 273, 125070.	4.0	2
83	Microwave-Assisted Biogenic Synthesis of Metal-Decorated Reduced Graphene Oxide and their Electrochemical Properties.. <i>ChemistrySelect</i> , 2018, 3, 13438-13441.	1.5	1
84	Synthesis of calcium and magnesium periodates for the development of high oxidation state battery cathodes. <i>Materials Chemistry and Physics</i> , 2022, 278, 125671.	4.0	1
85	Monitoring Effluents from an Air Toxic Control Device Using Continuous Nonmethane Organic Carbon Analyzer. <i>AIHAJ: A Journal for the Science of Occupational and Environmental Health and Safety</i> , 2000, 61, 16-21.	0.4	0
86	Surface Enhancement by Sample and Substrate Preparation Techniques in Raman and Infrared Spectroscopy. , 2003, , 413-437.		0
87	Techniques for the Extraction, Isolation, and Purification of Nucleic Acids. , 2003, , 331-375.		0
88	Sample Preparation in RNA Analysis. , 2003, , 301-330.		0
89	Chemical Analysis. , 2003, , 459-464.		0
90	Carbon Nanotubes: Synthesis of Carbon Nanotube Incorporated Metal Oxides for the Fabrication of Printable, Flexible Nickel-Zinc Batteries (<i>Adv. Mater. Interfaces</i> 4(2018)). <i>Advanced Materials Interfaces</i> , 2018, 5, 1870018.	3.7	0

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91	Protein expression profiling of Caco2/HT29MTX co-culture after functionalized carbon nanotube exposure. FASEB Journal, 2011, 25, 863.5.	0.5	0
92	Carbon Nanotube, Nanosilver and Nanoclay Protein Corona Composition in Cell Culture Media. FASEB Journal, 2013, 27, 1212.8.	0.5	0