

Soon Huat Tan

List of Publications by Year in descending order

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56
papers

1,399
citations

361413

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345221

36
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58
all docs

58
docs citations

58
times ranked

2055
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on carbon nanotubes in an environmental protection and green engineering perspective. Brazilian Journal of Chemical Engineering, 2010, 27, 227-242.	1.3	146
2	Membrane technology as a promising alternative in biodiesel production: A review. Biotechnology Advances, 2012, 30, 1364-1380.	11.7	129
3	Energy and environmental applications of carbon nanotubes. Environmental Chemistry Letters, 2012, 10, 265-273.	16.2	125
4	Calcium phosphate-based composites as injectable bone substitute materials. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2010, 94B, 273-286.	3.4	91
5	Poly(3-hydroxybutyrate)-functionalised multi-walled carbon nanotubes/chitosan green nanocomposite membranes and their application in pervaporation. Separation and Purification Technology, 2011, 76, 419-427.	7.9	78
6	A review on the evolution of ethyl tert-butyl ether (ETBE) and its future prospects. Renewable and Sustainable Energy Reviews, 2013, 22, 604-620.	16.4	78
7	Evolution towards the utilisation of functionalised carbon nanotubes as a new generation catalyst support in biodiesel production: an overview. RSC Advances, 2013, 3, 9070.	3.6	59
8	Feasibility study of various sulphonation methods for transforming carbon nanotubes into catalysts for the esterification of palm fatty acid distillate. Energy Conversion and Management, 2014, 88, 1283-1289.	9.2	51
9	Comparison of the pervaporation performance of various types of carbon nanotube-based nanocomposites in the dehydration of acetone. Separation and Purification Technology, 2013, 107, 252-263.	7.9	43
10	Biodiesel Production via Esterification of Palm Fatty Acid Distillate Using Sulphonated Multi-walled Carbon Nanotubes as a Solid Acid Catalyst: Process Study, Catalyst Reusability and Kinetic Study. Bioenergy Research, 2015, 8, 605-617.	3.9	37
11	A facile and acid-free approach towards the preparation of sulphonated multi-walled carbon nanotubes as a strong protonic acid catalyst for biodiesel production. Journal of the Taiwan Institute of Chemical Engineers, 2015, 52, 100-108.	5.3	35
12	Pervaporation separation of a ternary azeotrope containing ethyl acetate, ethanol and water using a buckypaper supported ionic liquid membrane. Chemical Engineering Research and Design, 2016, 109, 116-126.	5.6	35
13	Optimization of the mechanical properties of calcium phosphate/multi-walled carbon nanotubes/bovine serum albumin composites using response surface methodology. Materials & Design, 2011, 32, 3312-3319.	5.1	28
14	Novel MWCNT-buckypaper/polyvinyl alcohol asymmetric membrane for dehydration of etherification reaction mixture: Fabrication, characterisation and application. Journal of Membrane Science, 2014, 453, 546-555.	8.2	28
15	Esterification of palm fatty acid distillate with methanol via single-step pervaporation membrane reactor: A novel biodiesel production method. Energy Conversion and Management, 2019, 201, 112110.	9.2	26
16	Intrinsic microspheres structure of electrospun nanofibrous membrane with rational superhydrophobicity for desalination via membrane distillation. Desalination, 2022, 527, 115594.	8.2	26
17	A Review on the Use and Stability of Supported Liquid Membranes in the Pervaporation Process. Separation and Purification Reviews, 2014, 43, 62-88.	5.5	24
18	Synthesis of the novel symmetric buckypaper supported ionic liquid membrane for the dehydration of ethylene glycol by pervaporation. Separation and Purification Technology, 2015, 143, 135-145.	7.9	22

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19	Synthesis of Cs-ABW nanozeolite in organotemplate-free system. <i>Microporous and Mesoporous Materials</i> , 2019, 277, 78-83.	4.4	22
20	Carbon Membranes Prepared from a Polymer Blend of Polyethylene Glycol and Polyetherimide. <i>Chemical Engineering and Technology</i> , 2017, 40, 94-102.	1.5	20
21	High-flux strategy for electrospun nanofibers in membrane distillation to treat aquaculture wastewater: a review. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 3259-3272.	3.2	20
22	Cytocompatibility, bioactivity and mechanical strength of calcium phosphate cement reinforced with multi-walled carbon nanotubes and bovine serum albumin. <i>Ceramics International</i> , 2013, 39, 4975-4983.	4.8	19
23	Synthesis, Characterization and Biodegradation of Novel Poly(L-lactide)/Multiwalled Carbon Nanotube Porous Scaffolds for Tissue Engineering Applications. <i>Current Nanoscience</i> , 2011, 7, 323-332.	1.2	19
24	The effect of interfacial bonding of calcium phosphate cements containing bio-mineralized multi-walled carbon nanotube and bovine serum albumin on the mechanical properties of calcium phosphate cements. <i>Ceramics International</i> , 2011, 37, 2429-2435.	4.8	18
25	Multi-walled carbon nanotubes buckypaper/epoxy composites: effect of loading and pressure on tensile and electrical properties. <i>Polymer Bulletin</i> , 2019, 76, 2801-2817.	3.3	18
26	Acid-base bifunctional SBA-15 as an active and selective catalyst for synthesis of ethyl β -cyanocinnamate via Knoevenagel condensation. <i>Microporous and Mesoporous Materials</i> , 2021, 320, 111091.	4.4	18
27	Purification of single-walled carbon nanotubes using a fixed bed reactor packed with zirconia beads. <i>Carbon</i> , 2008, 46, 245-254.	10.3	16
28	Functionalization of Multi-Walled Carbon Nanotubes with Poly(2-ethyl-2-oxazoline). <i>Macromolecular Symposia</i> , 2007, 249-250, 270-275.	0.7	14
29	Carbon Nanotubes Applications: Solar and Fuel Cells, Hydrogen Storage, Lithium Batteries, Supercapacitors, Nanocomposites, Gas, Pathogens, Dyes, Heavy Metals and Pesticides. <i>Environmental Chemistry for A Sustainable World</i> , 2012, , 3-46.	0.5	13
30	Asymmetric membrane containing electrospun Cu-BTC/poly(vinyl alcohol) for pervaporation dehydration of 1,4-dioxane. <i>Separation and Purification Technology</i> , 2018, 192, 240-252.	7.9	12
31	OPTIMIZATION OF THE MECHANICAL STRENGTH PROPERTIES OF POLY(L-LACTIDE)/MULTI-WALLED CARBON NANOTUBE SCAFFOLDS USING RESPONSE SURFACE METHODOLOGY. <i>Nano</i> , 2011, 06, 113-122.	1.0	10
32	Study on the Reusability of Multiwalled Carbon Nanotubes in Biodegradable Chitosan Nanocomposites. <i>Polymer-Plastics Technology and Engineering</i> , 2014, 53, 1236-1250.	1.9	10
33	Selective synthesis of triacetyl glyceride biofuel additive via acetylation of glycerol over NiO-supported TiO ₂ catalyst enhanced by non-microwave instant heating. <i>Applied Surface Science</i> , 2021, 545, 149017.	6.1	10
34	Study on the Functionalization of Multi-Walled Carbon Nanotube with Monoamine Terminated Poly(ethylene oxide). <i>Macromolecular Symposia</i> , 2007, 249-250, 276-282.	0.7	9
35	Effects of Growth Parameters on the Morphology of Aligned Carbon Nanotubes Synthesized by Floating Catalyst and the Growth Model. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2013, 21, 765-777.	2.1	9
36	FLOATING CATALYST CVD SYNTHESIS OF CARBON NANOTUBES USING IRON (III) CHLORIDE: INFLUENCES OF THE GROWTH PARAMETERS. <i>Nano</i> , 2009, 04, 359-366.	1.0	8

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37	Properties of Fiberglass/MWCNT Bucky paper/Epoxy Laminated Composites. Procedia Chemistry, 2016, 19, 935-942.	0.7	8
38	Frictional force detection from lateral force microscopic image using a Si grating. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 313-314, 567-570.	4.7	7
39	Recyclable synthesis of Cs-ABW zeolite nanocrystals from non-reacted mother liquors with excellent catalytic heny reaction performance. Journal of Environmental Chemical Engineering, 2020, 8, 103579.	6.7	7
40	Effects of Temperature on the Synthesis of Carbon Nanotubes by FeCl ₃ as a Floating Catalyst Precursor. Fullerenes Nanotubes and Carbon Nanostructures, 2011, 19, 575-583.	2.1	6
41	Effect of black ink loading on the properties of multi-walled carbon nanotubes/glass fibre/epoxy laminated hybrid composites. Polymer Bulletin, 2018, 75, 3357-3375.	3.3	6
42	Fabrication of asymmetric zinc oxide/carbon nanotubes coated polysulfone photocatalytic nanocomposite membrane for fouling mitigation. Journal of Applied Polymer Science, 2021, 138, 51194.	2.6	6
43	IRON (III) CHLORIDE AS FLOATING CATALYST PRECURSOR TO PRODUCE MULTI-WALLED CARBON NANOTUBES FROM METHANE. Nano, 2010, 05, 167-173.	1.0	4
44	Fabrication and Properties of Multi-Walled Carbon Nanotubes Bucky paper. Advanced Materials Research, 0, 1108, 33-38.	0.3	4
45	Effect of Poly(2-ethyl-2-oxazoline) on Multi-Walled Carbon Nanotubes Reinforced Poly(vinyl alcohol) Composites. Polymers and Polymer Composites, 2010, 18, 251-256.	1.9	3
46	Effect of Cutting and Functionalization of Single-Walled Carbon Nanotubes on Their Dispersion Behaviors. Journal of Nanoscience and Nanotechnology, 2011, 11, 3350-3357.	0.9	3
47	Fast, low-pressure, low-temperature microwave synthesis of ABW cesium aluminosilicate zeolite nanocatalyst in organotemplate-free hydrogel system. Materials Research Bulletin, 2020, 122, 110691.	5.2	3
48	Controlled Carbonization Heating Rate for Enhancing CO ₂ Separation Based on Single Gas Studies. Periodica Polytechnica: Chemical Engineering, 2020, 65, 97-104.	1.1	3
49	Rebuttal to the comment on article "Poly(3-hydroxybutyrate)-functionalised multi-walled carbon nanotubes/chitosan green nanocomposite membranes and their application in pervaporation" Separation and Purification Technology, 2016, 158, 94-95.	7.9	2
50	Authors' Reply to the Letter to the Editor: Reply to "Non green perspective on biodegradable polymer nanocomposites". Brazilian Journal of Chemical Engineering, 2015, 32, 976-976.	1.3	2
51	Modification of the commercial polyester filter media support with electrospun polyethylene terephthalate fibers and its application for air purification. Science and Technology for the Built Environment, 2022, 28, 928-943.	1.7	2
52	Functionalized Multi-Walled Carbon Nanotubes as Heterogeneous Lewis Acid Catalysts in the Etherification Reaction of <i>tert</i> -Butyl Alcohol and Ethanol. Chemical Engineering Communications, 2016, 203, 1385-1394.	2.6	1
53	Organotemplate-free Cs-ABW nanozeolite as highly reactive and recyclable catalyst for Henry reaction between benzaldehyde and nitroethane. Turkish Journal of Chemistry, 2019, 43, 568-581.	1.2	1
54	Electrospun carboxyl-functionalised multi-walled carbon nanotube/poly(vinyl alcohol) asymmetric pervaporation membrane: Application and modeling. Journal of Applied Polymer Science, 2022, 139, 51953.	2.6	1

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55	FUNCTIONALIZED MWCNTS REINFORCED POLYETEHYLENE FIBER COMPOSITE: MECHANICAL STRENGTH CHARACTERIZATION. International Journal of Modern Physics B, 2009, 23, 1419-1424.	2.0	0
56	Carbon Nanotube-Based Biodegradable Polymeric Nanocomposites: 3Rs (Reduce, Reuse, and Recycle) in the Design. , 2017, , 1-17.		0