

Leonard D Tijing

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122
papers

5,233
citations

39
h-index

70
g-index

127
ext. papers

6,105
ext. citations

6.8
avg, IF

6.01
L-index

#	Paper	IF	Citations
122	Fouling and its control in membrane distillation: A review. <i>Journal of Membrane Science</i> , 2015 , 475, 215-246	9.6	581
121	Recent progress of membrane distillation using electrospun nanofibrous membrane. <i>Journal of Membrane Science</i> , 2014 , 453, 435-462	9.6	263
120	Superhydrophobic nanofiber membrane containing carbon nanotubes for high-performance direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2016 , 502, 158-170	9.6	256
119	Effect of stacking sequence on the flexural properties of hybrid composites reinforced with carbon and basalt fibers. <i>Composites Part B: Engineering</i> , 2014 , 58, 251-258	10	194
118	Graphene oxide incorporated polysulfone substrate for the fabrication of flat-sheet thin-film composite forward osmosis membranes. <i>Journal of Membrane Science</i> , 2015 , 493, 496-507	9.6	178
117	Antibacterial and superhydrophilic electrospun polyurethane nanocomposite fibers containing tourmaline nanoparticles. <i>Chemical Engineering Journal</i> , 2012 , 197, 41-48	14.7	149
116	Water desalination using graphene-enhanced electrospun nanofiber membrane via air gap membrane distillation. <i>Journal of Membrane Science</i> , 2016 , 520, 99-110	9.6	144
115	CF ₄ plasma-modified omniphobic electrospun nanofiber membrane for produced water brine treatment by membrane distillation. <i>Journal of Membrane Science</i> , 2017 , 529, 234-242	9.6	124
114	Simultaneous preparation of Ag/Fe ₃ O ₄ core-shell nanocomposites with enhanced magnetic moment and strong antibacterial and catalytic properties. <i>Chemical Engineering Journal</i> , 2013 , 226, 243-254	14.7	113
113	A novel dual-layer bicomponent electrospun nanofibrous membrane for desalination by direct contact membrane distillation. <i>Chemical Engineering Journal</i> , 2014 , 256, 155-159	14.7	112
112	Electrospun dual-layer nonwoven membrane for desalination by air gap membrane distillation. <i>Desalination</i> , 2017 , 403, 187-198	10.3	107
111	A review of membrane wettability for the treatment of saline water deploying membrane distillation. <i>Desalination</i> , 2020 , 479, 114312	10.3	106
110	Removal of oil from water using magnetic bicomponent composite nanofibers fabricated by electrospinning. <i>Composites Part B: Engineering</i> , 2015 , 77, 311-318	10	104
109	Characterization and mechanical performance comparison of multiwalled carbon nanotube/polyurethane composites fabricated by electrospinning and solution casting. <i>Composites Part B: Engineering</i> , 2013 , 44, 613-619	10	102
108	Antibacterial and photocatalytic properties of Ag/TiO ₂ /ZnO nano-flowers prepared by facile one-pot hydrothermal process. <i>Ceramics International</i> , 2013 , 39, 1503-1510	5.1	100
107	A green and facile one-pot synthesis of Ag/ZnO/RGO nanocomposite with effective photocatalytic activity for removal of organic pollutants. <i>Ceramics International</i> , 2013 , 39, 5083-5091	5.1	98
106	Photocatalytic TiO ₂ /RGO/nylon-6 spider-wave-like nano-nets via electrospinning and hydrothermal treatment. <i>Journal of Membrane Science</i> , 2013 , 429, 225-234	9.6	94

105	Effect of sulphonated polyethersulfone substrate for thin film composite forward osmosis membrane. <i>Desalination</i> , 2016 , 389, 129-136	10.3	88
104	Dual-layered nanocomposite substrate membrane based on polysulfone/graphene oxide for mitigating internal concentration polarization in forward osmosis. <i>Polymer</i> , 2017 , 110, 36-48	3.9	83
103	Graphene/PVDF flat-sheet membrane for the treatment of RO brine from coal seam gas produced water by air gap membrane distillation. <i>Journal of Membrane Science</i> , 2016 , 513, 74-84	9.6	80
102	Effect of heat-press conditions on electrospun membranes for desalination by direct contact membrane distillation. <i>Desalination</i> , 2016 , 378, 80-91	10.3	75
101	Bimodal fiber diameter distributed graphene oxide/nylon-6 composite nanofibrous mats via electrospinning. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 407, 121-125	5.1	75
100	3D printing for membrane separation, desalination and water treatment. <i>Applied Materials Today</i> , 2020 , 18, 100486	6.6	74
99	Synthesis, characterization, and photocatalytic properties of ZnO nano-flower containing TiO ₂ NPs. <i>Ceramics International</i> , 2012 , 38, 2943-2950	5.1	71
98	Hierarchical Composite Membranes with Robust Omniphobic Surface Using Layer-By-Layer Assembly Technique. <i>Environmental Science & Technology</i> , 2018 , 52, 2186-2196	10.3	62
97	ZnO micro-flowers assembled on reduced graphene sheets with high photocatalytic activity for removal of pollutants. <i>Powder Technology</i> , 2013 , 235, 853-858	5.2	60
96	A study on heat transfer enhancement using straight and twisted internal fin inserts. <i>International Communications in Heat and Mass Transfer</i> , 2006 , 33, 719-726	5.8	59
95	Potential and performance of a polydopamine-coated multiwalled carbon nanotube/polysulfone nanocomposite membrane for ultrafiltration application. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 34, 364-373	6.3	55
94	Physical water treatment using RF electric fields for the mitigation of CaCO ₃ fouling in cooling water. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 1426-1437	4.9	54
93	Hybrid membrane distillation: Resource, nutrient and energy recovery. <i>Journal of Membrane Science</i> , 2020 , 599, 117832	9.6	53
92	One-step fabrication of antibacterial (silver nanoparticles/poly(ethylene oxide)) [Polyurethane bicomponent hybrid nanofibrous mat by dual-spinneret electrospinning. <i>Materials Chemistry and Physics</i> , 2012 , 134, 557-561	4.4	53
91	Aggregation behaviour of engineered nanoparticles in natural waters: characterising aggregate structure using on-line laser light scattering. <i>Journal of Hazardous Materials</i> , 2015 , 284, 190-200	12.8	52
90	Controlled assembly of superparamagnetic iron oxide nanoparticles on electrospun PU nanofibrous membrane: A novel heat-generating substrate for magnetic hyperthermia application. <i>European Polymer Journal</i> , 2013 , 49, 3796-3805	5.2	47
89	Core-shell structured electrospun biomimetic composite nanofibers of calcium lactate/nylon-6 for tissue engineering. <i>Chemical Engineering Journal</i> , 2013 , 221, 90-98	14.7	45
88	Characterization of the surface biocompatibility of an electrospun nylon 6/CaP nanofiber scaffold using osteoblasts. <i>Chemical Engineering Journal</i> , 2013 , 215-216, 57-64	14.7	41

87	Mechanical performance of multiscale basalt fiber/epoxy laminates containing tourmaline micro/nano particles. <i>Composites Part B: Engineering</i> , 2014 , 58, 611-617	10	40
86	Synthesis, characterization, and mineralization of polyamide-6/calcium lactate composite nanofibers for bone tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 102, 152-7	6	40
85	Characteristics of membrane fouling by consecutive chemical cleaning in pressurized ultrafiltration as pre-treatment of seawater desalination. <i>Desalination</i> , 2015 , 369, 51-61	10.3	39
84	Semiconductor photothermal materials enabling efficient solar steam generation toward desalination and wastewater treatment. <i>Desalination</i> , 2021 , 500, 114853	10.3	39
83	Effects of volatile organic compounds on water recovery from produced water via vacuum membrane distillation. <i>Desalination</i> , 2018 , 440, 146-155	10.3	39
82	Two-nozzle electrospinning of (MWNT/PU)/PU nanofibrous composite mat with improved mechanical and thermal properties. <i>Current Applied Physics</i> , 2013 , 13, 1247-1255	2.6	38
81	Antibacterial tourmaline nanoparticles/polyurethane hybrid mat decorated with silver nanoparticles prepared by electrospinning and UV photoreduction. <i>Current Applied Physics</i> , 2013 , 13, 205-210	2.6	36
80	Mitigation of scaling in heat exchangers by physical water treatment using zinc and tourmaline. <i>Applied Thermal Engineering</i> , 2011 , 31, 2025-2031	5.8	36
79	Use of catalytic materials for the mitigation of mineral fouling. <i>International Communications in Heat and Mass Transfer</i> , 2006 , 33, 14-23	5.8	33
78	Coagulation performance and floc characteristics of polytitanium tetrachloride and titanium tetrachloride compared with ferric chloride for coal mining wastewater treatment. <i>Separation and Purification Technology</i> , 2015 , 152, 94-100	8.3	30
77	Effect of powdered activated carbon on integrated submerged membrane bioreactor-nanofiltration process for wastewater reclamation. <i>Bioresource Technology</i> , 2016 , 210, 18-25 ¹¹	11	30
76	Progress on the Fabrication and Application of Electrospun Nanofiber Composites. <i>Membranes</i> , 2020 , 10,	3.8	30
75	Volatile fatty acids and biogas recovery using thermophilic anaerobic membrane distillation bioreactor for wastewater reclamation. <i>Journal of Environmental Management</i> , 2019 , 231, 833-842	7.9	30
74	Thin-film composite membrane on a compacted woven backing fabric for pressure assisted osmosis. <i>Desalination</i> , 2017 , 406, 98-108	10.3	29
73	Fouling and Inactivation of Titanium Dioxide-Based Photocatalytic Systems. <i>Critical Reviews in Environmental Science and Technology</i> , 2015 , 45, 1880-1915	11.1	29
72	Improved mechanical properties of solution-cast silicone film reinforced with electrospun polyurethane nanofiber containing carbon nanotubes. <i>Applied Surface Science</i> , 2013 , 264, 453-458	6.7	29
71	Effect of high-frequency electric fields on calcium carbonate scaling. <i>Desalination</i> , 2011 , 279, 47-53	10.3	29
70	Modification of Nanofiber Support Layer for Thin Film Composite forward Osmosis Membranes via Layer-by-Layer Polyelectrolyte Deposition. <i>Membranes</i> , 2018 , 8,	3.8	29

69	Nanoscale zero-valent iron (nZVI) immobilization onto graphene oxide (GO)-incorporated electrospun polyvinylidene fluoride (PVDF) nanofiber membrane for groundwater remediation via gravity-driven membrane filtration. <i>Science of the Total Environment</i> , 2019 , 688, 787-796	10.2	27
68	Facile in situ growth of highly monodispersed Ag nanoparticles on electrospun PU nanofiber membranes: Flexible and high efficiency substrates for surface enhanced Raman scattering. <i>Applied Surface Science</i> , 2014 , 308, 396-401	6.7	27
67	Hybrid multi-scale basalt fiber-epoxy composite laminate reinforced with Electrospun polyurethane nanofibers containing carbon nanotubes. <i>Fibers and Polymers</i> , 2014 , 15, 1295-1302	2	26
66	Fertilizer-drawn forward osmosis for irrigation of tomatoes. <i>Desalination and Water Treatment</i> , 2015 , 53, 2746-2759		25
65	Facile synthesis and immobilization of Ag ₂ O/TiO ₂ nanoparticles on electrospun PU nanofibers by polyol technique and simple immersion. <i>Materials Chemistry and Physics</i> , 2012 , 135, 277-281	4.4	25
64	Janus membranes for membrane distillation: Recent advances and challenges. <i>Advances in Colloid and Interface Science</i> , 2021 , 289, 102362	14.3	22
63	Nanosheet-based Fe ₂ O ₃ hierarchical structure decorated with TiO ₂ nanospheres via a simple one-pot route: Magnetically recyclable photocatalysts. <i>Journal of Alloys and Compounds</i> , 2013 , 580, 143-147	5.7	21
62	RGO/Nylon-6 composite mat with unique structural features and electrical properties obtained from electrospinning and hydrothermal process. <i>Fibers and Polymers</i> , 2013 , 14, 970-975	2	21
61	Simultaneous synthesis of TiO ₂ microrods in situ decorated with Ag nanoparticles and their bactericidal efficiency. <i>Current Applied Physics</i> , 2012 , 12, 1106-1112	2.6	21
60	Fabrication and photocatalytic activity of electrospun nylon-6 nanofibers containing tourmaline and titanium dioxide nanoparticles. <i>Ceramics International</i> , 2013 , 39, 7143-7148	5.1	20
59	Improving Nanofiber Membrane Characteristics and Membrane Distillation Performance of Heat-Pressed Membranes via Annealing Post-Treatment. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 78	2.6	19
58	Use of an Oscillating Electric Field to Mitigate Mineral Fouling in a Heat Exchanger. <i>Experimental Heat Transfer</i> , 2009 , 22, 257-270	2.4	19
57	Recyclable nanoscale zerovalent iron (nZVI)-immobilized electrospun nanofiber composites with improved mechanical strength for groundwater remediation. <i>Composites Part B: Engineering</i> , 2019 , 171, 339-346	10	18
56	Biomass-based photothermal materials for interfacial solar steam generation: a review. <i>Materials Today Energy</i> , 2021 , 21, 100716	7	18
55	Preparation and characterization of LA/PCL composite fibers containing beta tricalcium phosphate (βTCP) particles. <i>Ceramics International</i> , 2014 , 40, 5049-5054	5.1	17
54	Preparation and characterization of (polyurethane/nylon-6) nanofiber/ (silicone) film composites via electrospinning and dip-coating. <i>Fibers and Polymers</i> , 2012 , 13, 339-345	2	17
53	1.16 Electrospinning for Membrane Fabrication: Strategies and Applications 2017 , 418-444		16
52	An experimental study on the bulk precipitation mechanism of physical water treatment for the mitigation of mineral fouling. <i>International Communications in Heat and Mass Transfer</i> , 2007 , 34, 673-681	5.8	16

51	Hydrothermal growth of mop-brush-shaped ZnO rods on the surface of electrospun nylon-6 nanofibers. <i>Ceramics International</i> , 2013 , 39, 3095-3102	5.1	15
50	Heat-Treated Titanium Balls for the Mitigation of Mineral Fouling in Heat Exchangers. <i>Experimental Heat Transfer</i> , 2008 , 21, 115-132	2.4	15
49	Inductive heating of electrospun Fe ₂ O ₃ /polyurethane composite mat under high-frequency magnetic field. <i>Ceramics International</i> , 2013 , 39, 9785-9790	5.1	14
48	Co-axially electrospun superhydrophobic nanofiber membranes with 3D-hierarchically structured surface for desalination by long-term membrane distillation. <i>Journal of Membrane Science</i> , 2021 , 623, 119028	9.6	14
47	An angled robotic dual-nozzle electrospinning set-up for preparing PU/PA6 composite fibers. <i>Textile Reseach Journal</i> , 2013 , 83, 311-320	1.7	13
46	Ammonia recovery from human urine as liquid fertilizers in hollow fiber membrane contactor: Effects of permeate chemistry. <i>Environmental Engineering Research</i> , 2021 , 26,	3.6	13
45	Inactivation of bacteria in batch suspension by fluidized ceramic tourmaline nanoparticles under oscillating radio frequency electric fields. <i>Ceramics International</i> , 2013 , 39, 2141-2145	5.1	12
44	Enhancement of nanoscale zero-valent iron immobilization onto electrospun polymeric nanofiber mats for groundwater remediation. <i>Chemical Engineering Research and Design</i> , 2017 , 112, 200-208	5.5	11
43	Polyvinylidene fluoride phase design by two-dimensional boron nitride enables enhanced performance and stability for seawater desalination. <i>Journal of Membrane Science</i> , 2020 , 598, 117669	9.6	11
42	Solution blow spinning (SBS) and SBS-spun nanofibers: Materials, methods, and applications. <i>Materials Today Communications</i> , 2020 , 25, 101656	2.5	11
41	Improving membrane distillation performance: Morphology optimization of hollow fiber membranes with selected non-solvent in dope solution. <i>Chemosphere</i> , 2019 , 230, 117-126	8.4	10
40	Simple fabrication of Ag nanoparticle-impregnated electrospun nanofibres as SERS substrates. <i>Bulletin of Materials Science</i> , 2015 , 38, 267-270	1.7	9
39	Agglomeration behaviour of titanium dioxide nanoparticles in river waters: A multi-method approach combining light scattering and field-flow fractionation techniques. <i>Journal of Environmental Management</i> , 2015 , 159, 135-142	7.9	9
38	Characterization and Photocatalytic Efficiency of TiO ₂ /Ti Beads Fabricated by Simple Heat-Treatment. <i>Journal of Materials Science and Technology</i> , 2012 , 28, 184-192	9.1	9
37	Preparation and Characterization of Photoactive Anatase TiO ₂ from Algae Bloomed Surface Water. <i>Catalysts</i> , 2020 , 10, 452	4	8
36	Needle-free transdermal delivery using PLGA nanoparticles: effect of particle size, injection pressure and syringe orifice diameter. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 123, 710-5	6	8
35	Synthesis and NO removal performance of anatase S-TiO/g-CN heterojunction formed from dye wastewater sludge. <i>Chemosphere</i> , 2021 , 275, 130020	8.4	8
34	Facile synthesis and characterization of anatase TiO/g-CN composites for enhanced photoactivity under UV-visible spectrum. <i>Chemosphere</i> , 2021 , 262, 128004	8.4	8

33	Robbing behavior and re-immobilization of nanoscale zero-valent iron (nZVI) onto electrospun polymeric nanofiber mats for trichloroethylene (TCE) remediation. <i>Separation and Purification Technology</i> , 2017 , 189, 375-381	8.3	7
32	Effect of annealing on the phase transition and morphology of Ag NPs on/in TiO ₂ rods synthesized by a polyol method. <i>Ceramics International</i> , 2012 , 38, 6365-6375	5.1	7
31	Introduction: Membrane Desalination Today, Past, and Future 2019 , xxv-xlvi		6
30	Stability of Fe-oxide nanoparticles coated with natural organic matter under relevant environmental conditions. <i>Water Science and Technology</i> , 2014 , 70, 2040-6	2.2	6
29	3D microflowers CuS/SnS ₂ heterostructure for highly efficient solar steam generation and water purification. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 232, 111377	6.4	6
28	Preparation and characterization of TiO ₂ generated from synthetic wastewater using TiCl ₄ based coagulation/flocculation aided with Ca(OH) ₂ . <i>Journal of Environmental Management</i> , 2019 , 250, 109521	7.9	5
27	Synthesis and characterisation of potassium polytitanate for photocatalytic degradation of crystal violet. <i>Journal of Environmental Sciences</i> , 2014 , 26, 2348-54	6.4	5
26	Characterization and biostability of HA/Ti6Al4V ACL anchor prepared by simple heat-treatment. <i>Ceramics International</i> , 2012 , 38, 5385-5391	5.1	5
25	Modified Hydrothermal Route for Synthesis of Photoactive Anatase TiO ₂ /g-CN Nanotubes from Sludge Generated TiO ₂ . <i>Catalysts</i> , 2020 , 10, 1350	4	5
24	Nanofibers for Water and Wastewater Treatment: Recent Advances and Developments. <i>Energy, Environment, and Sustainability</i> , 2019 , 431-468	0.8	5
23	Hydrophilic/Hydrophobic Silane Grafting on TiO ₂ Nanoparticles: Photocatalytic Paint for Atmospheric Cleaning. <i>Catalysts</i> , 2021 , 11, 193	4	5
22	Assessing the effect of catalytic materials on the scaling of carbon steel. <i>Desalination</i> , 2013 , 313, 189-198	0.3	4
21	Effect of laser polishing on the surface roughness and corrosion resistance of Nitinol stents. <i>Bio-Medical Materials and Engineering</i> , 2015 , 25, 67-75	1	4
20	3D-Printed Absorbers for Solar-Driven Interfacial Water Evaporation: A Mini-Review 2021 , 3, 0210103		4
19	Synthesis and Characterisation of Silica-Modified Titania for Photocatalytic Decolouration of Crystal Violet. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 5326-9	1.3	3
18	Efficacy of zinc and tourmaline in mitigating corrosion of carbon steel in non-flow mode. <i>Chemical Papers</i> , 2013 , 67,	1.9	3
17	Physical Water Treatment Using Oscillating Electric Fields to Mitigate Scaling in Heat Exchangers 2014 , 105-155		3
16	Accelerated in vitro durability testing of nonvascular Nitinol stents based on the electrical potential sensing method. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 112, 919-926	2.6	2

15	A novel electrical potential sensing method for in vitro stent fracture monitoring and detection. <i>Bio-Medical Materials and Engineering</i> , 2011 , 21, 213-22	1	2
14	Preparation of effective lithium-ion sieve from sludge-generated TiO ₂ . <i>Desalination</i> , 2022 , 525, 115491	10.3	2
13	Adsorption and Photocatalytic Degradation of Methylene Blue Using Potassium Polytitanate and Solar Simulator. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 4342-9	1.3	2
12	Exploring shredded waste PET bottles as a biofilter media for improved on-site sanitation. <i>Chemical Engineering Research and Design</i> , 2021 , 148, 370-381	5.5	2
11	Visible light activation of photocatalysts formed from the heterojunction of sludge-generated TiO and g-CN towards NO removal. <i>Journal of Hazardous Materials</i> , 2022 , 422, 126919	12.8	2
10	Mitigation of fouling and wetting in membrane distillation by electrical repulsion using a multi-layered single-wall carbon nanotube/polyvinylidene fluoride membrane. <i>Journal of Membrane Science</i> , 2022 , 120519	9.6	2
9	Magnetic Polishing of Titanium-Nickel Alloy Stents: Surface Characterization and Catheter Deployment Test. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 3006-3010	2.3	1
8	Deposition behavior of self-assembled monolayers and bacteria on metallic surfaces using an electrochemical quartz crystal nanobalance. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 1354-8	1.3	1
7	A study of the onset of biofouling using quartz crystal nanobalance. <i>International Communications in Heat and Mass Transfer</i> , 2006 , 33, 7-13	5.8	1
6	Elucidation of physicochemical scaling mechanisms in membrane distillation (MD): Implication to the control of inorganic fouling. <i>Desalination</i> , 2022 , 527, 115573	10.3	1
5	On-site domestic wastewater treatment system using shredded waste plastic bottles as biofilter media: Pilot-scale study on effluent standards in Bhutan. <i>Chemosphere</i> , 2022 , 286, 131729	8.4	0
4	Highly stable gold nanolayer membrane for efficient solar water evaporation under a harsh environment.. <i>Chemosphere</i> , 2022 , 299, 134394	8.4	0
3	Insight into the role of polydopamine nanostructures on nickel foam-based photothermal materials for solar water evaporation. <i>Separation and Purification Technology</i> , 2022 , 121054	8.3	0
2	Basalt Fabric-Electrospun Nanofiber-Based Composite Laminates. <i>Applied Mechanics and Materials</i> , 2013 , 465-466, 852-856	0.3	
1	Recent Progress in the Fabrication of Electrospun Nanofiber Membranes for Membrane Distillation 2018 , 71-100		