Woei Jye Lau

List of Publications by Year
in descending order

261 papers	13,173 citations	25014 57 h-index	28275 105 g-index
266 all docs	266 docs citations	266 times ranked	8750 citing authors

#	Article	IF	Citations
1	Eco-friendly surface modification approach to develop thin film nanocomposite membrane with improved desalination and antifouling properties. Journal of Advanced Research, 2022, 36, 39-49.	4.4	37
2	Photocatalytic membranes: a new perspective for persistent organic pollutants removal. Environmental Science and Pollution Research, 2022, 29, 12506-12530.	2.7	27
3	Fabrication and evaluation of nanofiltration membrane coated with amino-functionalized graphene oxide for highly efficient heavy metal removal. International Journal of Environmental Science and Technology, 2022, 19, 4615-4626.	1.8	14
4	Greener synthesis of functionalized-GO incorporated TFN NF membrane for potential recovery of saline water from salt/dye mixed solution. Desalination, 2022, 523, 115403.	4.0	28
5	The Impacts of Iron Oxide Nanoparticles on Membrane Properties for Water and Wastewater Applications: a Review. Arabian Journal for Science and Engineering, 2022, 47, 5443-5464.	1.7	3
6	Enhancing water flux and antifouling properties of <scp>PES</scp> hollow fiber membranes via incorporation of surfaceâ€functionalized <scp>Fe₃O₄</scp> nanoparticles. Journal of Chemical Technology and Biotechnology, 2022, 97, 1006-1020.	1.6	5
7	Fabrication of MoS2â€“rGO and MoS2â€“ZIF-8 membranes supported on flat alumina substrate for effective oil removal. Emergent Materials, 2022, 5, 1169-1182.	3.2	6
8	Solvent-Free Synthesis of MIL-101(Cr) for CO2 Gas Adsorption: The Effect of Metal Precursor and Molar Ratio. Sustainability, 2022, 14, 1152.	1.6	9
9	Flux Increase Occurring When an Ultrafiltration Membrane Is Flipped from a Normal to an Inverted Positionâ€”Experiments and Theory. Membranes, 2022, 12, 129.	1.4	4
10	Facile fabrication of polyethyleneimine interlayer-assisted graphene oxide incorporated reverse osmosis membranes for water desalination. Desalination, 2022, 526, 115502.	4.0	23
11	Modelling flow and mass transfer inside spacer-filled channels for reverse osmosis membrane modules. , 2022, , 413-432.		0
12	A 15-year review of novel monomers for thin-film composite membrane fabrication for water applications. , 2022, , 97-129.		0
13	Modification of Thin Film Composite Pressure Retarded Osmosis Membrane by Polyethylene Glycol with Different Molecular Weights. Membranes, 2022, 12, 282.	1.4	2
14	Impacts of the harvesting process on microalgae fatty acid profiles and lipid yields: Implications for biodiesel production. Renewable and Sustainable Energy Reviews, 2022, 161, 112410.	8.2	17
15	3D CFD study of hydrodynamics and mass transfer phenomena for spiral wound membrane submerged-type feed spacer with different node geometries and sizes. International Journal of Heat and Mass Transfer, 2022, 191, 122819.	2.5	15
16	A Review on the Use of Membrane Technology Systems in Developing Countries. Membranes, 2022, 12, 30.	1.4	37
17	Industrial application of membrane distillation technology using palm oil mill effluent in Malaysia. Materials Today: Proceedings, 2022, 57, 1282-1287.	0.9	4
18	Sustainable membranes with functionalized nanomaterials (FNMs) for environmental applications. , 2022, , 185-203.		0

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19	Tailoring the permeability and flux stability of forward osmosis membrane with tert-butylamine functionalized carbon nanotubes for paracetamol removal. Journal of Environmental Chemical Engineering, 2022, 10, 107977.	3.3	5
20	Removal of emerging organic micropollutants via modified-reverse osmosis/nanofiltration membranes: A review. Chemosphere, 2022, 305, 135151.	4.2	34
21	The state-of-the-art development of photocatalysts for the degradation of persistent herbicides in wastewater. Science of the Total Environment, 2022, 843, 156975.	3.9	32
22	Synthesis of spinel ferrite and its role in the removal of free fatty acids from deteriorated vegetable oil. Chinese Journal of Chemical Engineering, 2021, 40, 78-87.	1.7	7
23	Dynamically Coated Photocatalytic Zeoliteâ€“TiO2 Membrane for Oil-in-Water Emulsion Separation. Arabian Journal for Science and Engineering, 2021, 46, 6143-6151.	1.7	6
24	Recent development of graphene oxide-based membranes for oilâ€“water separation: A review. Separation and Purification Technology, 2021, 258, 118000.	3.9	80
25	Green one-pot synthesis and characterisation of hybrid reduced graphene oxide/zeolitic imidazole framework-8 (rGO/ZIF-8). Journal of the Iranian Chemical Society, 2021, 18, 363-373.	1.2	8
26	Thin film nanocomposite RO membranes: Review on fabrication techniques and impacts of nanofiller characteristics on membrane properties. Chemical Engineering Research and Design, 2021, 165, 81-105.	2.7	47
27	Photocatalytic degradation of aerobically treated palm oil mill effluent using titania nanotubes prepared via hydrothermal technique. Materials Today: Proceedings, 2021, 46, 1813-1817.	0.9	2
28	Synthesis of functional hydrophilic polyethersulfone-based electrospun nanofibrous membranes for water treatment. Journal of Environmental Chemical Engineering, 2021, 9, 104728.	3.3	13
29	Insights into metal-organic frameworks-integrated membranes for desalination process: A review. Desalination, 2021, 500, 114867.	4.0	70
30	Innovative polymer-complex draw solution for copper(II) removal using forward osmosis. Journal of Environmental Chemical Engineering, 2021, 9, 104854.	3.3	8
31	Impacts of Annealing Temperature on Morphological, Optical and Photocatalytic Properties of Gel-Combustion-Derived LaFeO3 Nanoparticles. Arabian Journal for Science and Engineering, 2021, 46, 6153-6165.	1.7	9
32	Nanomaterial development and its applications for emerging pollutant removal in water. , 2021, , 67-97.		12
33	Recent progress of polyamide thin film nanocomposite membranes for water applications. , 2021, , 125-145.		0
34	Green Approaches for Sustainable Development of Liquid Separation Membrane. Membranes, 2021, 11, 235.	1.4	20
35	Environmentally friendly approach for the fabrication of polyamide thin film nanocomposite membrane with enhanced antifouling and antibacterial properties. Separation and Purification Technology, 2021, 260, 118249.	3.9	19
36	Visible light induced photodegradation of bio-polymeric waste using boron-enhanced titania nanotubes. Journal of Alloys and Compounds, 2021, 864, 158146.	2.8	1

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37	Improving the Structural Parameter of the Membrane Sublayer for Enhanced Forward Osmosis. Membranes, 2021, 11, 448.	1.4	7
38	Rapid and eco-friendly technique for surface modification of TFC RO membrane for improved filtration performance. Journal of Environmental Chemical Engineering, 2021, 9, 105227.	3.3	25
39	New Concept of Thin-Film Composite Nanofiltration Membrane Fabrication Using a Mist-Based Interfacial Polymerization Technique. Industrial & Engineering Chemistry Research, 2021, 60, 9167-9178.	1.8	24
40	Predicting the whiteness index of cotton fabric with a least squares model. Cellulose, 2021, 28, 8841-8854.	2.4	8
41	Effect of Absorbents on NOx Removal through Polyvinylidene Fluoride (PVDF) Hollow Fiber Membrane Modules. International Journal of Chemical Engineering, 2021, 2021, 1-8.	1.4	1
42	Polyethersulfone ultrafiltration membrane incorporated with ferric-based metal-organic framework for textile wastewater treatment. Separation and Purification Technology, 2021, 270, 118819.	3.9	62
43	Functionalization of reverse osmosis membrane with titania nanotube and polyacrylic acid for enhanced antiscaling properties. Journal of Environmental Chemical Engineering, 2021, 9, 105937.	3.3	8
44	Surface modification of PA layer of TFC membranes: Does it effective for performance Improvement?. Journal of Industrial and Engineering Chemistry, 2021, 102, 271-292.	2.9	18
45	Silver doped titania nanotubes incorporated photocatalytic dual layer antibiofouling hollow fiber membrane for palm oil wastewater treatment. Journal of Environmental Chemical Engineering, 2021, 9, 106192.	3.3	13
46	Improving properties of thin film nanocomposite membrane through polyethyleneimine intermediate layer: A parametric study. Separation and Purification Technology, 2021, 274, 119035.	3.9	10
47	Exploring the potential of photocatalytic dual layered hollow fiber membranes incorporated with hybrid titania nanotube-boron for agricultural wastewater reclamation. Separation and Purification Technology, 2021, 275, 119136.	3.9	15
48	Fourth generation biofuel from genetically modified algal biomass: Challenges and future directions. Chemosphere, 2021, 285, 131535.	4.2	57
49	Surface Modification of Polymeric Membranes Using Nanomaterials for Water Applications. , 2021, , 3605-3635.		0
50	Effect of different structure of membrane support on polyamide formation and its performance in reverse osmosis. Materials Today: Proceedings, 2021, 46, 2078-2083.	0.9	1
51	Performance of thin film composite membranes for ammonium removal and reuse of ammonium-enriched solution for plant growth. Water Science and Technology: Water Supply, 2021, 21, 318-330.	1.0	5
52	A Review of Commercial Developments and Recent Laboratory Research of Dialyzers and Membranes for Hemodialysis Application. Membranes, 2021, 11, 767.	1.4	26
53	New approach of recycling end-of-life reverse osmosis membranes via sonication for microfiltration process. Journal of Environmental Chemical Engineering, 2021, 9, 106731.	3.3	13
54	Fabrication and in vitro study of 3D novel porous hydroxyapatite/polyether ether ketone surface nanocomposite. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, , .	1.6	2

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55	Development of Surface Modified PU Foam with Improved Oil Absorption and Reusability via an Environmentally Friendly and Rapid Pathway. Journal of Environmental Chemical Engineering, 2021, 10, 106817.	3.3	3
56	Hydroxypropyl methacrylate thin film coating on polyvinylidene fluoride hollow fiber membranes via initiated chemical vapor deposition. European Polymer Journal, 2020, 122, 109360.	2.6	17
57	Potential use of nanofiltration like-forward osmosis membranes for copper ion removal. Chinese Journal of Chemical Engineering, 2020, 28, 420-428.	1.7	25
58	In situ immobilization of silver on polydopamine-coated composite membrane for enhanced antibacterial properties. Journal of Water Process Engineering, 2020, 33, 100989.	2.6	29
59	Effects of surface charge of thin-film composite membrane on copper (II) ion removal by using nanofiltration and forward osmosis process. Journal of Water Process Engineering, 2020, 33, 101032.	2.6	27
60	A Review of CFD Modelling and Performance Metrics for Osmotic Membrane Processes. Membranes, 2020, 10, 285.	1.4	26
61	Numerical study on performance and efficiency of batch submerged vacuum membrane distillation for desalination. Chemical Engineering Research and Design, 2020, 163, 217-229.	2.7	14
62	Synthesis of amine imprinted manganese ferrite and its application in the removal of free fatty acid from waste vegetable oil. Surfaces and Interfaces, 2020, 21, 100715.	1.5	7
63	Comprehensive studies of membrane rinsing on the physicochemical properties and separation performance of TFC RO membranes. Desalination, 2020, 491, 114345.	4.0	13
64	Impacts of Multilayer Hybrid Coating on PSF Hollow Fiber Membrane for Enhanced Gas Separation. Membranes, 2020, 10, 335.	1.4	17
65	Progress of Interfacial Polymerization Techniques for Polyamide Thin Film (Nano)Composite Membrane Fabrication: A Comprehensive Review. Polymers, 2020, 12, 2817.	2.0	86
66	Improving â€˜Lipid Productivityâ€™ in Microalgae by Bilateral Enhancement of Biomass and Lipid Contents: A Review. Sustainability, 2020, 12, 9083.	1.6	41
67	A Green Approach to Modify Surface Properties of Polyurethane Foam for Enhanced Oil Absorption. Polymers, 2020, 12, 1883.	2.0	19
68	Rapid Surface Modification of Ultrafiltration Membranes for Enhanced Antifouling Properties. Membranes, 2020, 10, 401.	1.4	16
69	Graphene Oxide Incorporated Polysulfone Substrate for Flat Sheet Thin Film Nanocomposite Pressure Retarded Osmosis Membrane. Membranes, 2020, 10, 416.	1.4	16
70	Fabrication of a novel hydroxyapatite/polyether ether ketone surface nanocomposite via friction stir processing for orthopedic and dental applications. Progress in Biomaterials, 2020, 9, 35-44.	1.8	17
71	Application of polymer-based membranes for nutrient removal and recovery in wastewater. , 2020, , 103-134.		0
72	Structure and properties of lipase activated by cellulose-silica polyethersulfone membrane for production of pentyl valerate. Carbohydrate Polymers, 2020, 245, 116549.	5.1	6

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73	Preparation of nanocomposite activated carbon nanofiber/manganese oxide and its adsorptive performance toward leads (II) from aqueous solution. Journal of Water Process Engineering, 2020, 37, 101430.	2.6	24
74	Water flux increase by inverting the membrane from its normal position â€“ Is it occurring in FO and PRO?. Journal of Water Process Engineering, 2020, 37, 101366.	2.6	10
75	Optimizing the spinning parameter of titania nanotube-boron incorporated PVDF dual-layered hollow fiber membrane for synthetic AT-POME treatment. Journal of Water Process Engineering, 2020, 36, 101372.	2.6	8
76	Removal of Pharmaceutical Contaminants from Aqueous Medium: A State-of-the-Art Review Based on Paracetamol. Arabian Journal for Science and Engineering, 2020, 45, 7109-7135.	1.7	37
77	Visible lightâ€“driven perovskite-based photocatalyst for wastewater treatment. , 2020, , 265-302.		2
78	GO/PVA-integrated TFN RO membrane: Exploring the effect of orientation switching between PA and GO/PVA and evaluating the GO loading impact. Desalination, 2020, 496, 114538.	4.0	44
79	The techno-economic case for coupling advanced spacers to high-permeance RO membranes for desalination. Desalination, 2020, 491, 114534.	4.0	22
80	Enhanced visible light photocatalytic degradation of organic pollutants by iron doped titania nanotubes synthesized via facile one-pot hydrothermal. Powder Technology, 2020, 366, 96-106.	2.1	13
81	Fouling mitigation in forward osmosis and membrane distillation for desalination. Desalination, 2020, 480, 114338.	4.0	111
82	A high-flux P84 polyimide mixed matrix membranes incorporated with cadmium-based metal organic frameworks for enhanced simultaneous dyes removal: Response surface methodology. Environmental Research, 2020, 183, 109278.	3.7	39
83	A Thin Film Nanocomposite Reverse Osmosis Membrane Incorporated with Sâ€Beta Zeolite Nanoparticles for Water Desalination. ChemistrySelect, 2020, 5, 1972-1975.	0.7	7
84	Fabrication and characterization of graphene oxideâ€“polyethersulfone (GOâ€“PES) composite flat sheet and hollow fiber membranes for oilâ€–water separation. Journal of Chemical Technology and Biotechnology, 2020, 95, 1308-1320.	1.6	49
85	Improving CO2/CH4 and O2/N2 separation by using surface-modified polysulfone hollow fiber membranes. Journal of Polymer Research, 2020, 27, 1.	1.2	14
86	A green approach to modify surface properties of polyamide thin film composite membrane for improved antifouling resistance. Separation and Purification Technology, 2020, 250, 116976.	3.9	36
87	Enhancing the desalination performance of forward osmosis membrane through the incorporation of green nanocrystalline cellulose and halloysite dual nanofillers. Journal of Chemical Technology and Biotechnology, 2020, 95, 2359-2370.	1.6	20
88	Prospects of nanocomposite membranes for nitrogen and oxygen enrichment. , 2020, , 379-396.		2
89	CFD study of the effect of perforated spacer on pressure loss and mass transfer in spacer-filled membrane channels. Chemical Engineering Science, 2020, 222, 115704.	1.9	19
90	3D CFD study on hydrodynamics and mass transfer phenomena for SWM feed spacer with different floating characteristics. Chemical Engineering Research and Design, 2020, 159, 36-46.	2.7	25

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91	The Effect of the Number of Fibers in Hollow Fiber Membrane Modules for NOx Absorption. International Journal of Technology, 2020, 11, 269.	0.4	1
92	Mixed-matrix membranes incorporated with functionalized nanomaterials for water applications. , 2020, , 15-51.		3
93	Surface Modification of Polymeric Membranes Using Nanomaterials for Water Applications. , 2020, , 1-31.		0
94	Antifouling zwitterion embedded forward osmosis thin film composite membrane for highly concentrated oily wastewater treatment. Separation and Purification Technology, 2019, 214, 40-50.	3.9	66
95	Development of thin film nanocomposite membrane incorporated with plasma enhanced chemical vapor deposition-modified hydrous manganese oxide for nanofiltration process. Composites Part B: Engineering, 2019, 176, 107328.	5.9	29
96	In focus: recent development of membrane technology for water and environmental applications. Journal of Chemical Technology and Biotechnology, 2019, 94, 2755-2756.	1.6	4
97	Synthesis of nanocomposite membrane incorporated with amino-functionalized nanocrystalline cellulose for refinery wastewater treatment. Carbohydrate Polymers, 2019, 225, 115212.	5.1	36
98	Adsorptive mixed matrix membrane incorporating graphene oxide-manganese ferrite (GMF) hybrid nanomaterial for efficient As(V) ions removal. Composites Part B: Engineering, 2019, 175, 107150.	5.9	40
99	Preparation and Characterization of Chromium Metal Organic Framework for Carbon Dioxide Adsorption. IOP Conference Series: Earth and Environmental Science, 2019, 268, 012010.	0.2	1
100	Nanocellulose-silica polyethersulfone hybrid composite stabilized lipase for esterification. AIP Conference Proceedings, 2019, , .	0.3	0
101	Preparation and characterization of polylactic acid-modified polyvinylidene fluoride hollow fiber membranes with enhanced water flux and antifouling resistance. Journal of Water Process Engineering, 2019, 32, 100912.	2.6	23
102	Titanium dioxide-modified polyetherimide nanofiber membrane for water treatment. Journal of Water Process Engineering, 2019, 32, 100970.	2.6	29
103	Development of A Novel Corrugated Polyvinylidene difluoride Membrane via Improved Imprinting Technique for Membrane Distillation. Polymers, 2019, 11, 865.	2.0	31
104	CuBTC metal organic framework incorporation for enhancing separation and antifouling properties of nanofiltration membrane. Chemical Engineering Research and Design, 2019, 148, 227-239.	2.7	29
105	Iron oxide nanoparticles incorporated polyethersulfone electrospun nanofibrous membranes for effective oil removal. Chemical Engineering Research and Design, 2019, 148, 142-154.	2.7	34
106	Hydrous ferric oxide nanoparticles hosted porous polyethersulfone adsorptive membrane: chromium (VI) adsorptive studies and its applicability for water/wastewater treatment. Environmental Science and Pollution Research, 2019, 26, 20386-20399.	2.7	11
107	Development of microporous substrates of polyamide thin film composite membranes for pressure-driven and osmotically-driven membrane processes: A review. Journal of Industrial and Engineering Chemistry, 2019, 77, 25-59.	2.9	90
108	The Roles of Nanomaterials in Conventional and Emerging Technologies for Heavy Metal Removal: A State-of-the-Art Review. Nanomaterials, 2019, 9, 625.	1.9	51

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109	Boron removal and antifouling properties of thinâ€film nanocomposite membrane incorporating PECVDâ€modified titanate nanotubes. Journal of Chemical Technology and Biotechnology, 2019, 94, 2772-2782.	1.6	28
110	CO2/N2 selectivity enhancement of PEBAX MH 1657/Aminated partially reduced graphene oxide mixed matrix composite membrane. Separation and Purification Technology, 2019, 223, 142-153.	3.9	51
111	Antifouling Improvement of Polyethersulfone Membrane Incorporated with Negatively Charged Zincâ€“Iron Oxide for AT-POME Colour Removal. Arabian Journal for Science and Engineering, 2019, 44, 5571-5580.	1.7	6
112	Recent trends of heavy metal removal from water/wastewater by membrane technologies. Journal of Industrial and Engineering Chemistry, 2019, 76, 17-38.	2.9	490
113	Nanomaterial-incorporated nanofiltration membranes for organic solvent recovery. , 2019, , 159-181.		5
114	Synthesis of Titania nanotubes/polyaniline via rotating bed-plasma enhanced chemical vapor deposition for enhanced visible light photodegradation. Applied Surface Science, 2019, 484, 740-750.	3.1	21
115	Development of adsorptive ultrafiltration membranes for heavy metal removal. , 2019, , 1-22.		5
116	Development of nanomaterial-based photocatalytic membrane for organic pollutants removal. , 2019, , 45-67.		13
117	Preparation and characterization of chromium metal organic framework with trimesic or terephthalic acid in carbon dioxide adsorption. IOP Conference Series: Materials Science and Engineering, 2019, 670, 012002.	0.3	0
118	Materials and Engineering Design of Interfacial Polymerized Thin Film Composite Nanofiltration Membrane for Industrial Applications. , 2019, , 47-83.		5
119	Roles of nanomaterial structure and surface coating on thin film nanocomposite membranes for enhanced desalination. Composites Part B: Engineering, 2019, 160, 471-479.	5.9	33
120	Mixed matrix membranes incorporated with reduced graphene oxide (rGO) and zeolitic imidazole framework-8 (ZIF-8) nanofillers for gas separation. Journal of Solid State Chemistry, 2019, 270, 419-427.	1.4	55
121	Nanoengineered Materials for Water and Wastewater Treatments. , 2019, , 303-335.		3
122	Effects of the Citric Acid Addition on the Morphology, Surface Area, and Photocatalytic Activity of LaFeO₃ Nanoparticles Prepared by Glucose-Based Gel Combustion Methods. Industrial & Engineering Chemistry Research, 2019, 58, 609-617.	1.8	15
123	Fabrication of polyethersulfone electrospun nanofibrous membranes incorporated with hydrous manganese dioxide for enhanced ultrafiltration of oily solution. Separation and Purification Technology, 2019, 212, 205-214.	3.9	43
124	Performance evaluation of polyamide nanofiltration membranes for phosphorus removal process and their stability against strong acid/alkali solution. Chinese Journal of Chemical Engineering, 2019, 27, 1789-1797.	1.7	19
125	A novel interfacial polymerization approach towards synthesis of graphene oxide-incorporated thin film nanocomposite membrane with improved surface properties. Arabian Journal of Chemistry, 2019, 12, 75-87.	2.3	56
126	Preparation and characterization of polysulfone membrane coated with poly(ether block amid) for oxygen enrichment process. Malaysian Journal of Fundamental and Applied Sciences, 2019, 15, 50-53.	0.4	1

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127	Nanofiber Membranes for Oily Wastewater Treatment. , 2019, , 87-102.		1
128	Impacts of zeolite nanoparticles on substrate properties of thin film nanocomposite membranes for engineered osmosis. Journal of Nanoparticle Research, 2018, 20, 1.	0.8	42
129	Separation of CO₂/CH₄ and O₂/N₂ by polysulfone hollow fiber membranes: effects of membrane support properties and surface coating materials. Journal of Polymer Engineering, 2018, 38, 871-880.	0.6	22
130	Adsorption kinetics of methylene blue dyes onto magnetic graphene oxide. Journal of Environmental Chemical Engineering, 2018, 6, 2803-2811.	3.3	180
131	Membrane Separation. Chemical Engineering and Technology, 2018, 41, 210-210.	0.9	8
132	Facile acid treatment of multiwalled carbon nanotube-titania nanotube thin film nanocomposite membrane for reverse osmosis desalination. Journal of Cleaner Production, 2018, 181, 517-526.	4.6	29
133	Efficient separation of oily wastewater using polyethersulfone mixed matrix membrane incorporated with halloysite nanotube-hydrous ferric oxide nanoparticle. Separation and Purification Technology, 2018, 199, 161-169.	3.9	71
134	Tailor-made thin film nanocomposite membrane incorporated with graphene oxide using novel interfacial polymerization technique for enhanced water separation. Chemical Engineering Journal, 2018, 344, 524-534.	6.6	241
135	Application of copper sulfide nanoparticles loaded activated carbon for simultaneous adsorption of ternary dyes: Response surface methodology. Korean Journal of Chemical Engineering, 2018, 35, 1108-1118.	1.2	8
136	Synthesis and characterization of thin film composite membranes made of PSF-TiO2/GO nanocomposite substrate for forward osmosis applications. Arabian Journal of Chemistry, 2018, 11, 1144-1153.	2.3	73
137	Membrane fouling in desalination and its mitigation strategies. Desalination, 2018, 425, 130-155.	4.0	339
138	Thinâ€Film Nanocomposite Nanofiltration Membranes Incorporated with Graphene Oxide for Phosphorus Removal. Chemical Engineering and Technology, 2018, 41, 319-326.	0.9	8
139	AT-POME colour removal through photocatalytic submerged filtration using antifouling PVDF-TNT nanocomposite membrane. Separation and Purification Technology, 2018, 191, 266-275.	3.9	67
140	Detection of contaminants in water supply: A review on state-of-the-art monitoring technologies and their applications. Sensors and Actuators B: Chemical, 2018, 255, 2657-2689.	4.0	178
141	Synthesis and characterization of mixed matrix membranes incorporated with hydrous manganese oxide nanoparticles for highly concentrated oily solution treatment. Canadian Journal of Chemical Engineering, 2018, 96, 1612-1619.	0.9	15
142	Studies on the properties of RO membranes for salt and boron removal: Influence of thermal treatment methods and rinsing treatments. Desalination, 2018, 428, 218-226.	4.0	34
143	Performance of Nanofiltrationâ€Like Forwardâ€Osmosis Membranes for Aerobically Treated Palm Oil Mill Effluent. Chemical Engineering and Technology, 2018, 41, 303-312.	0.9	21
144	Synthesizing Ag/PDA/PES Antibacterial Membrane for Natural Organic Molecules Removal. E3S Web of Conferences, 2018, 65, 05023.	0.2	4

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145	Characterizations of Polysulfone/Ferrihydrite Mixed Matrix Membranes for Water/Wastewater Treatment. Water Environment Research, 2018, 90, 64-73.	1.3	18
146	Adsorptive Removal of As(V) Ions from Water using Graphene Oxideâ€Manganese Ferrite and Titania Nanotubeâ€Manganese Ferrite Hybrid Nanomaterials. Chemical Engineering and Technology, 2018, 41, 2250-2258.	0.9	23
147	Development of novel thin film nanocomposite forward osmosis membranes containing halloysite/graphitic carbon nitride nanoparticles towards enhanced desalination performance. Desalination, 2018, 447, 18-28.	4.0	62
148	A reusable electrospun PVDF-PVP-MnO2 nanocomposite membrane for bisphenol A removal from drinking water. Journal of Environmental Chemical Engineering, 2018, 6, 5801-5811.	3.3	50
149	Ultrafiltration Membranes Incorporated with Carbon-Based Nanomaterials for Antifouling Improvement and Heavy Metal Removal. , 2018, , 217-232.		13
150	Preparation, Characterization, and Performance Evaluation of Polysulfone Hollow Fiber Membrane with PEBAX or PDMS Coating for Oxygen Enhancement Process. Polymers, 2018, 10, 126.	2.0	34
151	Response Surface Methodology for Modeling Bisphenol A Removal Using Ultrafiltration Membrane System. Water, Air, and Soil Pollution, 2018, 229, 1.	1.1	98
152	Recent Progress of Thin Film Composite Membrane Fabrication and Modification for NF/RO/FO Applications. , 2018, , 3-50.		0
153	Quantitative analysis of MWCNT agglomeration in polymericâ€based membranes using atomic force microscope. Surface and Interface Analysis, 2017, 49, 55-62.	0.8	10
154	Novel mixed matrix membranes incorporated with dual-nanofillers for enhanced oil-water separation. Separation and Purification Technology, 2017, 178, 113-121.	3.9	93
155	Enhanced desalination of polyamide thin film nanocomposite incorporated with acid treated multiwalled carbon nanotube-titania nanotube hybrid. Desalination, 2017, 409, 163-170.	4.0	93
156	Hydrophilic hollow fiber PVDF ultrafiltration membrane incorporated with titanate nanotubes for decolourization of aerobically-treated palm oil mill effluent. Chemical Engineering Journal, 2017, 316, 101-110.	6.6	71
157	Surface modification of thin film composite membrane by nanoporous titanate nanoparticles for improving combined organic and inorganic antifouling properties. Materials Science and Engineering C, 2017, 75, 463-470.	3.8	44
158	Adsorption and photocatalytic degradation of methylene blue using high surface area titanate nanotubes (TNT) synthesized via hydrothermal method. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	66
159	Enhanced catalytic performance of Ni/Î±-Al2O3 catalyst modified with CaZrO3 nanoparticles in steam-methane reforming. International Journal of Hydrogen Energy, 2017, 42, 28254-28265.	3.8	34
160	Anti-Fouling Double-Skinned Forward Osmosis Membrane with Zwitterionic Brush for Oily Wastewater Treatment. Scientific Reports, 2017, 7, 6904.	1.6	39
161	Reactive Blue Dye Removal by Membrane Distillation using PVDF Membrane. Indian Journal of Science and Technology, 2017, 9, .	0.5	6
162	PREPARATION AND CHARACTERIZATION OF SUPERHYDROPHILIC NANOCOMPOSITE ULTRAFILTRATION MEMBRANES FOR TREATMENT OF HIGHLY CONCENTRATED OIL-IN-WATER EMULSION. Jurnal Teknologi (Sciences and Engineering), 2017, 79, .	0.3	3

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163	Photodegradation stability study of PVDF- and PEI-based membranes for oily wastewater treatment process. Membrane Water Treatment, 2017, 8, 211-223.	0.5	11
164	Fabrication and Characterization of Polysulfone Membranes Coated with Polydimethysiloxane for Oxygen Enrichment. Aerosol and Air Quality Research, 2017, 17, 2735-2742.	0.9	14
165	Adsorptive Removal of Arsenic from Water Sources Using Novel Nanocomposite Mixed Matrix Membranes. , 2017, , 413-438.		0
166	IMPACTS OF HYDROPHILIC NANOFILLERS ON SEPARATION PERFORMANCE OF THIN FILM NANOCOMPOSITE REVERSE OSMOSIS MEMBRANE. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	0
167	DEACIDIFICATION OF PALM OIL USING SOLVENT EXTRACTION INTEGRATED WITH MEMBRANE TECHNOLOGY. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	4
168	The Removal of Bisphenol A in Water Treatment Plant Using Ultrafiltration Membrane System. Water, Air, and Soil Pollution, 2016, 227, 1.	1.1	12
169	Degradation of PVDF-based composite membrane and its impacts on membrane intrinsic and separation properties. Journal of Polymer Engineering, 2016, 36, 261-268.	0.6	19
170	Preparation and characterization of a novel highly hydrophilic and antifouling polysulfone/nanoporous TiO₂nanocomposite membrane. Nanotechnology, 2016, 27, 415706.	1.3	51
171	Influence of organic solvents and operating conditions on the performance of polyphenylsulfone (PPSU)/copper-1,3,5-benzenetricarboxylate (Cu-BTC) solvent resistant nanofiltration (SRNF) membranes. Chemical Engineering Research and Design, 2016, 115, 66-76.	2.7	20
172	Preparation of polysulfone-based PANIâ€“TiO₂ nanocomposite hollow fiber membranes for industrial dye rejection applications. RSC Advances, 2016, 6, 99764-99773.	1.7	20
173	Solvothermal synthesis of nanoporous TiO₂: the impact on thin-film composite membranes for engineered osmosis application. Nanotechnology, 2016, 27, 345702.	1.3	25
174	The potential of direct contact membrane distillation for industrial textile wastewater treatment using PVDF-Cloisite 15A nanocomposite membrane. Chemical Engineering Research and Design, 2016, 111, 284-293.	2.7	63
175	Nanomaterials for biofouling and scaling mitigation of thin film composite membrane: A review. Desalination, 2016, 393, 2-15.	4.0	164
176	Preparation and performance of PVDF-based nanocomposite membrane consisting of TiO2 nanofibers for organic pollutant decomposition in wastewater under UV irradiation. Desalination, 2016, 391, 89-97.	4.0	85
177	Functionally graded polymeric materials: A brif review of current fabrication methods and introduction of a novel fabrication method. Materials Science and Engineering C, 2016, 64, 102-107.	3.8	25
178	Graphene oxide incorporated thin film nanocomposite nanofiltration membrane for enhanced salt removal performance. Desalination, 2016, 387, 14-24.	4.0	294
179	A practical approach to synthesize polyamide thin film nanocomposite (TFN) membranes with improved separation properties for water/wastewater treatment. Journal of Materials Chemistry A, 2016, 4, 4134-4144.	5.2	111
180	A review on bisphenol A occurrences, health effects and treatment process via membrane technology for drinking water. Environmental Science and Pollution Research, 2016, 23, 11549-11567.	2.7	104

#	Article	IF	Citations
181	Removal of bisphenol A by adsorption mechanism using PESâ€“SiO2composite membranes. Environmental Technology (United Kingdom), 2016, 37, 1959-1969.	1.2	18
182	Polysulfone/hydrous ferric oxide ultrafiltration mixed matrix membrane: Preparation, characterization and its adsorptive removal of lead (II) from aqueous solution. Chemical Engineering Journal, 2016, 289, 28-37.	6.6	196
183	Minimizing structural parameter of thin film composite forward osmosis membranes using polysulfone/halloysite nanotubes as membrane substrates. Desalination, 2016, 377, 152-162.	4.0	149
184	Spin Coating Interfacial Polymerization (IP) Techniques. , 2016, , 1810-1812.		0
185	FABRICATION OF MIXED MATRIC MEMBRANE INCORPORATED WITH MODIFIED SILICA NANOPARTICLES FOR BISPHENOL A REMOVAL. Jurnal Teknologi (Sciences and Engineering), 2015, 74, .	0.3	4
186	Deacidification of crude palm oil using PVA-crosslinked PVDF membrane. Journal of Food Engineering, 2015, 166, 165-173.	2.7	30
187	Improving water permeability and anti-fouling property of polyacrylonitrile-based hollow fiber ultrafiltration membranes by surface modification with polyacrylonitrile-g-poly(vinyl alcohol) graft copolymer. Korean Journal of Chemical Engineering, 2015, 32, 1853-1863.	1.2	16
188	Polyphenylsulfone-based solvent resistant nanofiltration (SRNF) membrane incorporated with copper-1,3,5-benzenetricarboxylate (Cu-BTC) nanoparticles for methanol separation. RSC Advances, 2015, 5, 13000-13010.	1.7	83
189	Tackling colour issue of anaerobically-treated palm oil mill effluent using membrane technology. Journal of Water Process Engineering, 2015, 8, 221-226.	2.6	41
190	Study on the thin film composite poly(piperazine-amide) nanofiltration membranes made of different polymeric substrates: Effect of operating conditions. Korean Journal of Chemical Engineering, 2015, 32, 753-760.	1.2	22
191	Morphologies and separation characteristics of polyphenylsulfone-based solvent resistant nanofiltration membranes: Effect of polymer concentration in casting solution and membrane pretreatment condition. Korean Journal of Chemical Engineering, 2015, 32, 743-752.	1.2	19
192	Super hydrophilic TiO2/HNT nanocomposites as a new approach for fabrication of high performance thin film nanocomposite membranes for FO application. Desalination, 2015, 371, 104-114.	4.0	107
193	Synthesis, modification and optimization of titanate nanotubes-polyamide thin film nanocomposite (TFN) membrane for forward osmosis (FO) application. Chemical Engineering Journal, 2015, 281, 243-251.	6.6	145
194	Physicochemical characteristics of poly(piperazine-amide) TFC nanofiltration membrane prepared at various reaction times and its relation to the performance. Journal of Polymer Engineering, 2015, 35, 71-78.	0.6	17
195	Dye wastewater treatment by direct contact membrane distillation using polyvinylidene fluoride hollow fiber membranes. Journal of Polymer Engineering, 2015, 35, 471-479.	0.6	30
196	Surface modification of SiO₂ nanoparticles and its impact on the properties of PES-based hollow fiber membrane. RSC Advances, 2015, 5, 58644-58654.	1.7	50
197	Performance evaluation of novel PVDFâ€“Cloisite 15A hollow fiber composite membranes for treatment of effluents containing dyes and salts using membrane distillation. RSC Advances, 2015, 5, 38011-38020.	1.7	35
198	Membrane Distillation Technology for Treatment of Wastewater from Rubber Industry in Malaysia. Procedia CIRP, 2015, 26, 792-796.	1.0	47

#	Article	IF	Citations
199	A review on polyamide thin film nanocomposite (TFN) membranes: History, applications, challenges and approaches. Water Research, 2015, 80, 306-324.	5.3	587
200	Synthesis and characterization of novel thin film nanocomposite reverse osmosis membranes with improved organic fouling properties for water desalination. RSC Advances, 2015, 5, 21268-21276.	1.7	95
201	An acid functionalized MWCNT/PVP nanocomposite as a new additive for fabrication of an ultrafiltration membrane with improved anti-fouling resistance. RSC Advances, 2015, 5, 95421-95432.	1.7	34
202	The impacts of various operating conditions on submerged membrane photocatalytic reactors (SMPR) for organic pollutant separation and degradation: a review. RSC Advances, 2015, 5, 97335-97348.	1.7	25
203	A novel super-hydrophilic PSf/HAO nanocomposite ultrafiltration membrane for efficient separation of oil/water emulsion. Separation and Purification Technology, 2015, 150, 13-20.	3.9	74
204	Arsenate removal from contaminated water by a highly adsorptive nanocomposite ultrafiltration membrane. New Journal of Chemistry, 2015, 39, 8263-8272.	1.4	28
205	Preparation and characterization of PES/SiO2 composite ultrafiltration membrane for advanced water treatment. Korean Journal of Chemical Engineering, 2015, 32, 2319-2329.	1.2	47
206	Improved permeation properties of polyacrylonitrile-based ultrafiltration membranes incorporated with poly(vinyl alcohol). Desalination and Water Treatment, 2015, 55, 1771-1785.	1.0	1
207	Synthesis and characterization of novel thin film nanocomposite (TFN) membranes embedded with halloysite nanotubes (HNTs) for water desalination. Desalination, 2015, 358, 33-41.	4.0	146
208	Performance of PAN-based membranes with graft copolymers bearing hydrophilic PVA and PAN segments in direct ultrafiltration of natural rubber effluent. Desalination, 2015, 358, 49-60.	4.0	30
209	A novel thin film nanocomposite reverse osmosis membrane with superior anti-organic fouling affinity for water desalination. Desalination, 2015, 368, 106-113.	4.0	153
210	Thin film composite membrane â€" Recent development and future potential. Desalination, 2015, 356, 140-148.	4.0	245
211	Characterization Methods of Thin Film Composite Nanofiltration Membranes. Separation and Purification Reviews, 2015, 44, 135-156.	2.8	101
212	Preparation and characterization of PVDF membranes incorporated with different additives for dyeing solution treatment using membrane distillation. Desalination and Water Treatment, 2015, 56, 1999-2012.	1.0	41
213	Characteristic and performance of polyvinylidene fluoride membranes blended with different additives in direct contact membrane distillation. Desalination and Water Treatment, 2015, 54, 3218-3226.	1.0	17
214	Inorganic Nanomaterials in Polymeric Ultrafiltration Membranes for Water Treatment. Separation and Purification Reviews, 2015, 44, 216-249.	2.8	159
215	Polyamide Membrane. , 2015, , 1-3.		1
216	Performance of Polyphenylsulfone-based Solvent Resistant Nanofiltration Membranes in Removing Dyes from Methanol Solution. Jurnal Teknologi (Sciences and Engineering), 2014, 70, .	0.3	3

#	Article	IF	Citations
217	Preparation of High Performance SPEEK/Cloisite 15A Nanocomposite Membrane via Advanced Membrane Formulation Method. Jurnal Teknologi (Sciences and Engineering), 2014, 70, .	0.3	1
218	Treatment of Aerobic Treated Palm Oil Mill Effluent (AT-POME) by using TiO2 Photocatalytic Process. Jurnal Teknologi (Sciences and Engineering), 2014, 70, .	0.3	14
219	Characteristic and Performance of Polyvinylidene Fluoride Membranes Blended with Lithium Chloride in Direct Contact Membrane Distillation. Jurnal Teknologi (Sciences and Engineering), 2014, 69, .	0.3	1
220	Preparation, characterisation and performance of polyvinylidene fluoride membrane for sodium chloride rejection in direct contact membrane distillation. Materials Research Innovations, 2014, 18, S6-359-S6-363.	1.0	1
221	Ultrafiltration as a pretreatment for seawater desalination: A review. Membrane Water Treatment, 2014, 5, 15-29.	0.5	44
222	Influence of polymer concentration in casting solution and solvent-solute-membrane interactions on performance of polyphenylsulfone (PPSU) nanofiltration membrane in alcohol solvents. Journal of Polymer Engineering, 2014, 34, 489-500.	0.6	25
223	Improving performance and antifouling capability of PES UF membranes via blending with highly hydrophilic hydrous manganese dioxide nanoparticles. Desalination, 2014, 335, 87-95.	4.0	109
224	Synthesis and characterization of thin film nanocomposite forward osmosis membrane with hydrophilic nanocomposite support to reduce internal concentration polarization. Journal of Membrane Science, 2014, 449, 74-85.	4.1	235
225	A novel thin film composite forward osmosis membrane prepared from PSfâ€“TiO2 nanocomposite substrate for water desalination. Chemical Engineering Journal, 2014, 237, 70-80.	6.6	387
226	Physicochemical study of polyvinylidene fluorideâ€“Cloisite15AÂ® composite membranes for membrane distillation application. RSC Advances, 2014, 4, 63367-63379.	1.7	46
227	A facile modification approach for polyacrylonitrile-based UF hollow fiber membrane utilizing polyacrylonitrile-g-poly(vinyl alcohol) graft copolymer. Journal of Polymer Research, 2014, 21, 1.	1.2	11
228	The potential of thin film nanocomposite membrane in reducing organic fouling in forward osmosis process. Desalination, 2014, 348, 82-88.	4.0	90
229	Novel polyethersulfone (PES)/hydrous manganese dioxide (HMO) mixed matrix membranes with improved anti-fouling properties for oily wastewater treatment process. RSC Advances, 2014, 4, 17587-17596.	1.7	105
230	Effect of PVP Molecular Weights on the Properties of PVDF-TiO₂Composite Membrane for Oily Wastewater Treatment Process. Separation Science and Technology, 2014, 49, 2303-2314.	1.3	52
231	Investigation of submerged membrane photocatalytic reactor (sMPR) operating parameters during oily wastewater treatment process. Desalination, 2014, 353, 48-56.	4.0	104
232	Study on the thin film composite poly(piperazine-amide) nanofiltration membrane: Impacts of physicochemical properties of substrate on interfacial polymerization formation. Desalination, 2014, 344, 198-205.	4.0	141
233	The potential of membrane distillation in recovering water from hot dyeing solution. Journal of Water Process Engineering, 2014, 2, 71-78.	2.6	46
234	Treatment of restaurant wastewater using ultrafiltration and nanofiltration membranes. Journal of Water Process Engineering, 2014, 2, 58-62.	2.6	47

#	Article	IF	Citations
235	Spin Coating Interfacial Polymerization (IP) Techniques. , 2014, , 1-3.		0
236	Fabrication and characterization of novel PES/Feâ€“Mn binary oxide UF mixed matrix membrane for adsorptive removal of As(III) from contaminated water solution. Separation and Purification Technology, 2013, 118, 64-72.	3.9	115
237	Effect of surface pattern formation on membrane fouling and its control in phase inversion process. Journal of Membrane Science, 2013, 446, 326-331.	4.1	78
238	Formation of thin film composite nanofiltration membrane: Effect of polysulfone substrate characteristics. Desalination, 2013, 329, 9-18.	4.0	180
239	Synthesis of thin film nanocomposite forward osmosis membrane with enhancement in water flux without sacrificing salt rejection. Desalination, 2013, 330, 90-99.	4.0	103
240	Car wash industry in Malaysia: Treatment of car wash effluent using ultrafiltration and nanofiltration membranes. Separation and Purification Technology, 2013, 104, 26-31.	3.9	78
241	Adsorptive removal of Pb(II) from aqueous solution by novel PES/HMO ultrafiltration mixed matrix membrane. Separation and Purification Technology, 2013, 120, 59-68.	3.9	115
242	Performance of Surface Modification of Polyvinylidene Fluoride Hollow Fiber Membrane in Membrane Distillation. Advanced Materials Research, 2013, 795, 137-140.	0.3	4
243	Effect of Hydrophobicity Degree on PVDF Hollow Fiber Membranes for Textile Wastewater Treatment Using Direct Contact Membrane Distillation. Jurnal Teknologi (Sciences and Engineering), 2013, 65, .	0.3	5
244	Preparation and Characterization of Polysulfone/Polyphenylsulfone/Titanium Dioxide Composite Ultrafiltration Membranes for Palm Oil Mill Effluent Treatment. Jurnal Teknologi (Sciences and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 377	0.3	10
245	Performance of PSf Ultrafiltration Membrane: Effect of Different Nonsolvent on Coagulation Medium. Jurnal Teknologi (Sciences and Engineering), 2013, 65, .	0.3	2
246	Improved Performance of PAN-based UF Membrane with PAN-g-PVA Amphiphilic Copolymer. Jurnal Teknologi (Sciences and Engineering), 2013, 65, .	0.3	0
247	Treatment of dyeing solution by NF membrane for decolorization and salt reduction. Desalination and Water Treatment, 2012, 50, 245-253.	1.0	36
248	A recent progress in thin film composite membrane: A review. Desalination, 2012, 287, 190-199.	4.0	757
249	Effects of process conditions in submerged ultrafiltration for refinery wastewater treatment: Optimization of operating process by response surface methodology. Desalination, 2012, 287, 350-361.	4.0	51
250	Seawater Reverse Osmosis (SWRO) desalination by thin-film composite membraneâ€"Current development, challenges and future prospects. Desalination, 2012, 287, 228-237.	4.0	270
251	Morphological and separation performance study of polysulfone/titanium dioxide (PSF/TiO2) ultrafiltration membranes for humic acid removal. Desalination, 2011, 273, 85-92.	4.0	271
252	Application of response surface methodology in pes/speek blend NF membrane for dyeing solution treatment. Membrane Water Treatment, 2010, 1, 49-60.	0.5	18

#	Article	IF	Citations
253	Influence of feed conditions on the rejection of salt and dye in aqueous solution by different characteristics of hollow fiber nanofiltration membranes. Desalination and Water Treatment, 2009, 6, 281-288.	1.0	28
254	Theoretical studies on structural and electrical properties of PES/SPEEK blend nanofiltration membrane. AICHE Journal, 2009, 55, 2081-2093.	1.8	27
255	Theoretical studies on the morphological and electrical properties of blended PES/SPEEK nanofiltration membranes using different sulfonation degree of SPEEK. Journal of Membrane Science, 2009, 334, 30-42.	4.1	74
256	Polymeric nanofiltration membranes for textile dye wastewater treatment: Preparation, performance evaluation, transport modelling, and fouling control â€" a review. Desalination, 2009, 245, 321-348.	4.0	412
257	Effect of SPEEK content on the morphological and electrical properties of PES/SPEEK blend nanofiltration membranes. Desalination, 2009, 249, 996-1005.	4.0	50
258	Preparation and characterization of PVDFâ€"PVPâ€"TiO₂composite hollow fiber membranes for oily wastewater treatment using submerged membrane system. Desalination and Water Treatment, 0, , 1-11.	1.0	24
259	Preparation and characterization of polyimide membranes in iron wastewater removal by membrane distillation. IOP Conference Series: Materials Science and Engineering, 0, 458, 012028.	0.3	1
260	Development of intelligent system models for prediction of licorice concentration during nanofiltration/reverse osmosis process. , 0, 145, 83-95.		5
261	Impacts of sodium bicarbonate and co-amine monomers on properties of thin-film composite membrane for water treatment. International Journal of Environmental Science and Technology, 0, , 1.	1.8	0