

Shiao-Shing Chen

List of Publications by Year in descending order

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114
papers

3,374
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145106

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docs citations

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times ranked

4177
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#	ARTICLE	IF	CITATIONS
1	Water reclamation and microbial community investigation: Treatment of tetramethylammonium hydroxide wastewater through an anaerobic osmotic membrane bioreactor hybrid system. <i>Journal of Hazardous Materials</i> , 2022, 427, 128200.	6.5	8
2	Microplastics waste in environment: A perspective on recycling issues from PPE kits and face masks during the COVID-19 pandemic. <i>Environmental Technology and Innovation</i> , 2022, 26, 102290.	3.0	71
3	Ultrasonication Assisted Catalytic Transesterification of Ceiba Pentandra (Kapok) Oil Derived Biodiesel Using Immobilized Iron Nanoparticles. <i>Fuels</i> , 2022, 3, 113-131.	1.3	8
4	Enhanced understanding of osmotic membrane bioreactors through machine learning modeling of water flux and salinity. <i>Science of the Total Environment</i> , 2022, 838, 156009.	3.9	16
5	Recovery of iodide as triiodide from thin-film transistor liquid crystal display wastewater by forward osmosis. <i>Journal of Hazardous Materials</i> , 2021, 403, 123637.	6.5	3
6	Simultaneous hexavalent chromium removal, water reclamation and electricity generation in osmotic bio-electrochemical system. <i>Separation and Purification Technology</i> , 2021, 263, 118155.	3.9	15
7	Efficient Cu removal from CuEDTA complex-containing wastewater using electrochemically controlled sacrificial iron anode. <i>Chemosphere</i> , 2021, 264, 128573.	4.2	12
8	Significance of Membrane Applications for High-Quality Biodiesel and Byproduct (Glycerol) in Biofuel Industries—Review. <i>Current Pollution Reports</i> , 2021, 7, 128-145.	3.1	9
9	Microbial community response to ciprofloxacin toxicity in sponge membrane bioreactor. <i>Science of the Total Environment</i> , 2021, 773, 145041.	3.9	14
10	Facile approach for designing a novel micropatterned antiwetting membrane by utilizing 3D printed molds for improved desalination performance. <i>Journal of Membrane Science</i> , 2021, 637, 119641.	4.1	10
11	A breakthrough dynamic-osmotic membrane bioreactor/nanofiltration hybrid system for real municipal wastewater treatment and reuse. <i>Bioresource Technology</i> , 2021, 342, 125930.	4.8	11
12	Application of progressive freezing on forward osmosis draw solute recovery. <i>Environmental Science and Pollution Research</i> , 2020, 27, 34664-34674.	2.7	9
13	A novel self-buffering membrane distillation-based thermophilic anaerobic bioreactor. <i>Environmental Technology and Innovation</i> , 2020, 20, 101077.	3.0	6
14	Evaluating the performance of polystyrene sulfonate coupling with non ionic Triton-X114 surfactant as draw solution in forward osmosis and membrane distillation systems. <i>Environmental Technology and Innovation</i> , 2020, 19, 100993.	3.0	9
15	A promising bioelectrochemical reactor integrating membrane distillation and microbial fuel cell for dual advantages of power generation and water recovery. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 2776-2788.	1.2	4
16	A novel thermophilic anaerobic granular sludge membrane distillation bioreactor for wastewater reclamation. <i>Environmental Science and Pollution Research</i> , 2020, 27, 41751-41763.	2.7	5
17	Effects of polyethylene glycol and glutaraldehyde cross-linker on TFC-FO membrane performance. <i>Environmental Technology and Innovation</i> , 2020, 20, 101059.	3.0	11
18	Glycine—Nitrate Combustion Synthesis of Cu-Based Nanoparticles for NP9EO Degradation Applications. <i>Catalysts</i> , 2020, 10, 1061.	1.6	7

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19	Water and nutrient recovery by a novel moving sponge “Anaerobic osmotic membrane bioreactor” Membrane distillation (AnOMBR-MD) closed-loop system. <i>Bioresource Technology</i> , 2020, 312, 123573.	4.8	16
20	Forward osmosis“membrane distillation hybrid system for desalination using mixed trivalent draw solution. <i>Journal of Membrane Science</i> , 2020, 603, 118029.	4.1	28
21	Application of Fenton Method for the Removal of Organic Matter in Sewage Sludge at Room Temperature. <i>Sustainability</i> , 2020, 12, 1518.	1.6	17
22	Recent Developments in Nanomaterials-Modified Membranes for Improved Membrane Distillation Performance. <i>Membranes</i> , 2020, 10, 140.	1.4	55
23	Iodide recovery and boron removal from thin-film transistor liquid crystal display wastewater through forward osmosis. <i>Journal of Cleaner Production</i> , 2020, 258, 120587.	4.6	21
24	Solvent based Slurry Stereolithography 3D printed hydrophilic ceramic membrane for ultrafiltration application. <i>Ceramics International</i> , 2020, 46, 12480-12488.	2.3	37
25	Exploring Nanosilver-Coated Hollow Fiber Microfiltration to Mitigate Biofouling for High Loading Membrane Bioreactor. <i>Molecules</i> , 2019, 24, 2345.	1.7	5
26	A comprehensive review of recent developments in 3D printing technique for ceramic membrane fabrication for water purification. <i>RSC Advances</i> , 2019, 9, 16869-16883.	1.7	81
27	Crosslinked PVDF“HP“based hydrophobic membranes incorporated with CNF for enhanced stability and permeability in membrane distillation. <i>Journal of Applied Polymer Science</i> , 2019, 136, 48021.	1.3	17
28	Hospital wastewater treatment by sponge membrane bioreactor coupled with ozonation process. <i>Chemosphere</i> , 2019, 230, 377-383.	4.2	68
29	Innovative upflow anaerobic sludge osmotic membrane bioreactor for wastewater treatment. <i>Bioresource Technology</i> , 2019, 287, 121466.	4.8	42
30	Electrospinning: A Versatile Fabrication Technique for Nanofibrous Membranes for Use in Desalination. , 2019, , 247-273.		20
31	Effect of ciprofloxacin dosages on the performance of sponge membrane bioreactor treating hospital wastewater. <i>Bioresource Technology</i> , 2019, 273, 573-580.	4.8	42
32	Mesophilic microfiltration“anaerobic osmotic membrane bioreactor”membrane distillation hybrid system for phosphorus recovery. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 1230-1239.	1.6	15
33	Understanding the mechanisms of trace organic contaminant removal by high retention membrane bioreactors: a critical review. <i>Environmental Science and Pollution Research</i> , 2019, 26, 34085-34100.	2.7	40
34	Enhanced desalination using a three-layer OTMS based superhydrophobic membrane for a membrane distillation process. <i>RSC Advances</i> , 2018, 8, 9640-9650.	1.7	23
35	Casting of a superhydrophobic membrane composed of polysulfone/Cera flava for improved desalination using a membrane distillation process. <i>RSC Advances</i> , 2018, 8, 1808-1819.	1.7	24
36	Electrochemical treatment for simultaneous removal of heavy metals and organics from surface finishing wastewater using sacrificial iron anode. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 83, 107-114.	2.7	40

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37	Sustainable Desalination Process and Nanotechnology. Environmental Chemistry for A Sustainable World, 2018, , 185-228.	0.3	1
38	Exploration of polyelectrolyte incorporated with Triton-X 114 surfactant based osmotic agent for forward osmosis desalination. Journal of Environmental Management, 2018, 209, 346-353.	3.8	25
39	Applicability of an integrated moving sponge biocarrier-osmotic membrane bioreactor MD system for saline wastewater treatment using highly salt-tolerant microorganisms. Separation and Purification Technology, 2018, 198, 93-99.	3.9	23
40	Optimising the recovery of EDTA-2Na draw solution in forward osmosis through direct contact membrane distillation. Separation and Purification Technology, 2018, 198, 108-112.	3.9	26
41	Copper recovery via polyelectrolyte enhanced ultrafiltration followed by dithionite based chemical reduction: Effects of solution pH and polyelectrolyte type. Separation and Purification Technology, 2018, 198, 113-120.	3.9	15
42	Exploration of an innovative draw solution for a forward osmosis-membrane distillation desalination process. Environmental Science and Pollution Research, 2018, 25, 5203-5211.	2.7	28
43	Developments in forward osmosis and membrane distillation for desalination of waters. Environmental Chemistry Letters, 2018, 16, 1247-1265.	8.3	63
44	A Feasibility Study of Ammonia Recovery from Coking Wastewater by Coupled Operation of a Membrane Contactor and Membrane Distillation. International Journal of Environmental Research and Public Health, 2018, 15, 441.	1.2	22
45	Anti-wetting behaviour of a superhydrophobic octadecyltrimethoxysilane blended PVDF/recycled carbon black composite membrane for enhanced desalination. Environmental Science: Water Research and Technology, 2018, 4, 1612-1623.	1.2	27
46	Sol-Gel Hydrothermal Synthesis and Visible Light Photocatalytic Degradation Performance of Fe/N Codoped TiO ₂ Catalysts. Materials, 2018, 11, 939.	1.3	27
47	Preparation and Photocatalytic Hydrogen Production of Pt-Graphene/TiO ₂ Composites from Water Splitting. Journal of Nanoscience and Nanotechnology, 2018, 18, 48-55.	0.9	19
48	Uniform hydrophobic electrospun nanofibrous layer composed of polysulfone and sodium dodecyl sulfate for improved desalination performance. Separation and Purification Technology, 2017, 186, 352-365.	3.9	25
49	Poly(vinyl alcohol) incorporated with surfactant based electrospun nanofibrous layer onto polypropylene mat for improved desalination by using membrane distillation. Desalination, 2017, 414, 18-27.	4.0	45
50	Hg removal and the effects of coexisting metals in forward osmosis and membrane distillation. Water Science and Technology, 2017, 75, 2622-2630.	1.2	21
51	Osmosis membrane bioreactor-microfiltration with magnesium-based draw solute for salinity reduction and phosphorus recovery. International Biodeterioration and Biodegradation, 2017, 124, 169-175.	1.9	26
52	Forward osmosis desalination by utilizing chlorhexidine gluconate based mouthwash as a reusable draw solute. Chemical Engineering Journal, 2016, 304, 962-969.	6.6	24
53	A comprehensive review: electrospinning technique for fabrication and surface modification of membranes for water treatment application. RSC Advances, 2016, 6, 85495-85514.	1.7	255
54	Ni removal from aqueous solutions by chemical reduction: Impact of pH and pe in the presence of citrate. Journal of Hazardous Materials, 2016, 320, 521-528.	6.5	16

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55	Removal of trace-amount mercury from wastewater by forward osmosis. <i>Journal of Water Process Engineering</i> , 2016, 14, 108-116.	2.6	37
56	Iodide recovery from thin film transistor liquid crystal display plants by using potassium hydroxide - driven forward osmosis. <i>Journal of Membrane Science</i> , 2016, 520, 214-220.	4.1	16
57	Adsorption of Methyl Blue on Mesoporous Materials Using Rice Husk Ash as Silica Source. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 4108-4114.	0.9	10
58	Innovative sponge-based moving bed osmotic membrane bioreactor hybrid system using a new class of draw solution for municipal wastewater treatment. <i>Water Research</i> , 2016, 91, 305-313.	5.3	66
59	Exploring high charge of phosphate as new draw solute in a forward osmosis membrane distillation hybrid system for concentrating high-nutrient sludge. <i>Science of the Total Environment</i> , 2016, 557-558, 44-50.	3.9	46
60	Effects of hydraulic retention time and biofloculant addition on membrane fouling in a sponge-submerged membrane bioreactor. <i>Bioresource Technology</i> , 2016, 210, 11-17.	4.8	53
61	A novel osmosis membrane bioreactor-membrane distillation hybrid system for wastewater treatment and reuse. <i>Bioresource Technology</i> , 2016, 209, 8-15.	4.8	55
62	A breakthrough biosorbent in removing heavy metals: Equilibrium, kinetic, thermodynamic and mechanism analyses in a lab-scale study. <i>Science of the Total Environment</i> , 2016, 542, 603-611.	3.9	117
63	Evaluating treatment options for wastewater generated from production of metal complex dyes. <i>Desalination and Water Treatment</i> , 2016, 57, 14044-14050.	1.0	1
64	Influence of micelle properties on micellar-enhanced ultrafiltration for chromium recovery. <i>Water Science and Technology</i> , 2015, 72, 2045-2051.	1.2	7
65	Recovery of Cu(II) by chemical reduction using sodium dithionite: effect of pH and ligands. <i>Water Science and Technology</i> , 2015, 72, 2089-2094.	1.2	6
66	Concentrate of surfactant-based draw solutions in forward osmosis by ultrafiltration and nanofiltration. <i>Water Science and Technology: Water Supply</i> , 2015, 15, 1133-1139.	1.0	3
67	Application of forward osmosis (FO) under ultrasonication on sludge thickening of waste activated sludge. <i>Water Science and Technology</i> , 2015, 72, 1301-1307.	1.2	24
68	Innovation in Draw Solute for Practical Zero Salt Reverse in Forward Osmosis Desalination. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 6067-6074.	1.8	31
69	Exploring an innovative surfactant and phosphate-based draw solution for forward osmosis desalination. <i>Journal of Membrane Science</i> , 2015, 489, 212-219.	4.1	51
70	Applicability of a novel osmotic membrane bioreactor using a specific draw solution in wastewater treatment. <i>Science of the Total Environment</i> , 2015, 518-519, 586-594.	3.9	42
71	Effects of co-existed anions on retention characteristics of chromate by MEUF. <i>Desalination and Water Treatment</i> , 2015, 55, 2829-2835.	1.0	2
72	Recovery of chromium from plastic plating wastewater by cetyltrimethylammonium bromide MEUF and electro dialysis. <i>Desalination and Water Treatment</i> , 2015, 55, 2408-2415.	1.0	7

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73	Fouling potential and reclamation feasibility for a closed landfill leachate treated by various pretreatment processes on membrane system. <i>Desalination and Water Treatment</i> , 2015, 55, 3568-3575.	1.0	4
74	A new class of draw solutions for minimizing reverse salt flux to improve forward osmosis desalination. <i>Science of the Total Environment</i> , 2015, 538, 129-136.	3.9	65
75	Recovery of Cu(II) by chemical reduction using sodium dithionite. <i>Chemosphere</i> , 2015, 141, 183-188.	4.2	19
76	Simultaneous Control of Elemental Mercury/Sulfur Dioxide/Nitrogen Monoxide from Coal-Fired Flue Gases with Metal Oxide-Impregnated Activated Carbon. <i>Aerosol and Air Quality Research</i> , 2015, 15, 2094-2103.	0.9	17
77	Synthesis of N-doped TiO ₂ photocatalyst for low-concentration elemental mercury removal under various gas conditions. <i>Applied Catalysis B: Environmental</i> , 2014, 160-161, 558-565.	10.8	43
78	Fluoride recovery from spent fluoride etching solution through crystallization of Na ₃ AlF ₆ (synthetic cryolite). <i>Separation and Purification Technology</i> , 2014, 137, 53-58.	3.9	38
79	Exploration of EDTA sodium salt as novel draw solution in forward osmosis process for dewatering of high nutrient sludge. <i>Journal of Membrane Science</i> , 2014, 455, 305-311.	4.1	139
80	Application of forward osmosis on dewatering of high nutrient sludge. <i>Bioresource Technology</i> , 2013, 132, 224-229.	4.8	105
81	Separation of three divalent cations (Cu ²⁺ , Co ²⁺ and Ni ²⁺) by NF membranes from pHs3 to 5. <i>Desalination</i> , 2013, 328, 51-57.	4.0	23
82	Comparison of high pressure and ambient pressure aerobic granulation sequential batch reactor processes. <i>Bioresource Technology</i> , 2013, 140, 28-35.	4.8	5
83	Enhanced photocatalytic activity of chromium(VI) reduction and EDTA oxidization by photoelectrocatalysis combining cationic exchange membrane processes. <i>Journal of Hazardous Materials</i> , 2013, 248-249, 97-106.	6.5	37
84	Reduction of PCDDs/PCDFs in MSWI fly ash using microwave peroxide oxidation in H ₂ SO ₄ /HNO ₃ solution. <i>Chemosphere</i> , 2013, 91, 864-868.	4.2	19
85	Synergistic effects of chromium(VI) reduction/EDTA oxidization for PCB wastewater by photocatalysis combining ionic exchange membrane processes. <i>Desalination and Water Treatment</i> , 2013, 51, 495-502.	1.0	5
86	Granulation of biological flocs under elevated pressure: characteristics of granules. <i>Water Science and Technology</i> , 2013, 67, 2850-2855.	1.2	0
87	Coagulation enhancement of nonylphenol ethoxylate by partial oxidation using zero-valent iron/hydrogen peroxide. <i>Desalination and Water Treatment</i> , 2013, 51, 1590-1595.	1.0	0
88	Removal of nonionic surfactant from electroplating wastewater by fluidized zerovalent iron with two oxidants (H ₂ O ₂ /Na ₂ S ₂ O ₈). <i>Desalination and Water Treatment</i> , 2013, 51, 1678-1684.	1.0	8
89	Intermittent high-pressure sequential bioreactor (IHPSB) with integration of sand filtration system for synthetic wastewater treatment. <i>Environmental Technology (United Kingdom)</i> , 2012, 33, 937-942.	1.2	2
90	Degradation of phenolic compounds in water by non-thermal plasma treatment. <i>Journal of Water Chemistry and Technology</i> , 2012, 34, 179-189.	0.2	19

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91	Dissolution of D2EHPA in liquid-liquid extraction process: Implication on metal removal and organic content of the treated water. <i>Water Research</i> , 2011, 45, 5953-5958.	5.3	14
92	Removal of chromium(VI) and naphthalenesulfonate from textile wastewater by photocatalysis combining ionic exchange membrane processes. <i>Separation and Purification Technology</i> , 2011, 80, 663-669.	3.9	33
93	A Study on Dynamic Volatile Organic Compound Emission Characterization of Water-Based Paints. <i>Journal of the Air and Waste Management Association</i> , 2011, 61, 35-45.	0.9	31
94	Comparison of reduction efficiency of woven straw for entrained emissions of particulate matter with diameters less than 10 μm (PM10) and less than 2.5 μm (PM2.5) from exposed areas at construction sites. A paper submitted to the <i>Journal of Environmental Engineering and Science</i> . <i>Canadian Journal of Civil Engineering</i> , 2010, 37, 787-795.	0.7	1
95	Liquid-phase non-thermal plasma-prepared N-doped TiO ₂ for azo dye degradation with the catalyst separation system by ceramic membranes. <i>Water Science and Technology</i> , 2010, 62, 1060-1066.	1.2	5
96	Preparation and Characterization of Nanocrystalline Fe/N Co-Doped Titania. <i>Ferroelectrics</i> , 2009, 381, 51-58.	0.3	4
97	Concentration and purification of chromate from electroplating wastewater by two-stage electro dialysis processes. <i>Journal of Hazardous Materials</i> , 2009, 161, 1075-1080.	6.5	71
98	In-line coagulation/ultrafiltration for silica removal from brackish water as RO membrane pretreatment. <i>Separation and Purification Technology</i> , 2009, 70, 112-117.	3.9	46
99	Compressed Air-Assisted Solvent Extraction (CASX) for Chromate Removal: Regeneration and Recovery. <i>Separation Science and Technology</i> , 2009, 44, 3911-3922.	1.3	7
100	Odor Load Investigation for a Pharmaceutical Plant by Open Path Fourier Transform Infrared (OP-FTIR)/Environmental Protection Agency Regulatory Dispersion Model (AERMOD). <i>Environmental Forensics</i> , 2009, 10, 82-91.	1.3	7
101	Chromate reduction by waste iron from electroplating wastewater using plug flow reactor. <i>Journal of Hazardous Materials</i> , 2008, 152, 1092-1097.	6.5	44
102	Recovery of chromate from spent plating solutions by two-stage nanofiltration processes. <i>Desalination</i> , 2008, 229, 147-155.	4.0	19
103	Enhanced removal of three phenols by laccase polymerization with MF/UF membranes. <i>Bioresource Technology</i> , 2008, 99, 2293-2298.	4.8	35
104	Change in MSW characteristics under recent management strategies in Taiwan. <i>Waste Management</i> , 2008, 28, 2443-2455.	3.7	38
105	High temperature fluidized bed zero valent iron process for flue gas nitrogen monoxide removal. <i>Journal of Environmental Engineering and Science</i> , 2008, 7, 165-173.	0.3	0
106	Removal of EDTA from low pH printed-circuit board wastewater in a fluidized zero valent iron reactor. <i>Water Science and Technology</i> , 2008, 58, 661-667.	1.2	6
107	Prevention Efficiencies of Woven Straw to Reduce PM10 Emissions from Exposed Area. <i>Journal of Environmental Engineering, ASCE</i> , 2007, 133, 1153-1161.	0.7	2
108	Preparation and Characterization of Nitrogen-Doped Titanium Dioxide. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 3104-3110.	0.9	4

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109	Simultaneous Removal of NO and SO ₂ by High-Temperature Fluidized Zero-Valent Iron Processes. Journal of the Air and Waste Management Association, 2007, 57, 303-308.	0.9	0
110	Reduction of chromate from electroplating wastewater from pH 1 to 2 using fluidized zero valent iron process. Journal of Hazardous Materials, 2007, 142, 362-367.	6.5	119
111	Mechanisms of NO _x Removal from Flue Gas by Zero Valent Iron. Journal of the Air and Waste Management Association, 2006, 56, 869-875.	0.9	8
112	Fluidized zero valent iron bed reactor for nitrate removal. Chemosphere, 2005, 59, 753-759.	4.2	95
113	A new method to produce nanoscale iron for nitrate removal. Journal of Nanoparticle Research, 2004, 6, 639-647.	0.8	154
114	Photodegradation and durability of LPNTP-promoted N-doped TiO ₂ in a continuous-flow photocatalysis/membrane separation system. , 0, 61, 113-119.		0