

TorOve Leiknes

List of Publications by Year in descending order

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85
papers

4,178
citations

81839

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123376

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3974
citing authors

#	ARTICLE	IF	CITATIONS
1	PDMS/PVDF hybrid electrospun membrane with superhydrophobic property and drop impact dynamics for dyeing wastewater treatment using membrane distillation. <i>Journal of Membrane Science</i> , 2017, 525, 57-67.	4.1	310
2	High flux and antifouling properties of negatively charged membrane for dyeing wastewater treatment by membrane distillation. <i>Water Research</i> , 2016, 103, 362-371.	5.3	193
3	The effect of coagulation with MF/LUF membrane filtration for the removal of virus in drinking water. <i>Journal of Membrane Science</i> , 2006, 279, 364-371.	4.1	165
4	The development of a biofilm membrane bioreactor. <i>Desalination</i> , 2007, 202, 135-143.	4.0	161
5	Oxidation of Refractory Benzothiazoles with PMS/CuFe ₂ O ₄ : Kinetics and Transformation Intermediates. <i>Environmental Science & Technology</i> , 2016, 50, 5864-5873.	4.6	132
6	The effect of coupling coagulation and flocculation with membrane filtration in water treatment: A review. <i>Journal of Environmental Sciences</i> , 2009, 21, 8-12.	3.2	131
7	Evaluation of fertilizer-drawn forward osmosis for sustainable agriculture and water reuse in arid regions. <i>Journal of Environmental Management</i> , 2017, 187, 137-145.	3.8	99
8	Fertiliser drawn forward osmosis process: Pilot-scale desalination of mine impaired water for fertigation. <i>Journal of Membrane Science</i> , 2016, 508, 22-31.	4.1	85
9	Fouling development in direct contact membrane distillation: Non-invasive monitoring and destructive analysis. <i>Water Research</i> , 2018, 132, 34-41.	5.3	80
10	Theoretical modeling and experimental validation of transport and separation properties of carbon nanotube electrospun membrane distillation. <i>Journal of Membrane Science</i> , 2017, 526, 395-408.	4.1	79
11	Aquaporin based biomimetic membrane in forward osmosis: Chemical cleaning resistance and practical operation. <i>Desalination</i> , 2017, 420, 208-215.	4.0	79
12	Quorum-Quenching Bacteria Isolated From Red Sea Sediments Reduce Biofilm Formation by <i>Pseudomonas aeruginosa</i> . <i>Frontiers in Microbiology</i> , 2018, 9, 1354.	1.5	77
13	Removal of natural organic matter (NOM) in drinking water treatment by coagulation–microfiltration using metal membranes. <i>Journal of Membrane Science</i> , 2004, 242, 47-55.	4.1	75
14	Time-resolved monitoring of biofouling development on a flat sheet membrane using optical coherence tomography. <i>Scientific Reports</i> , 2017, 7, 15.	1.6	75
15	Impact of aeration rates on particle colloidal fraction in the biofilm membrane bioreactor (BF-MBR). <i>Desalination</i> , 2008, 231, 182-190.	4.0	73
16	In-depth analyses of organic matters in a full-scale seawater desalination plant and an autopsy of reverse osmosis membrane. <i>Separation and Purification Technology</i> , 2016, 162, 171-179.	3.9	72
17	Environmental and economic impacts of fertilizer drawn forward osmosis and nanofiltration hybrid system. <i>Desalination</i> , 2017, 416, 76-85.	4.0	70
18	In-situ assessment of biofilm formation in submerged membrane system using optical coherence tomography and computational fluid dynamics. <i>Journal of Membrane Science</i> , 2017, 521, 84-94.	4.1	70

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19	Gravity-driven membrane system for secondary wastewater effluent treatment: Filtration performance and fouling characterization. <i>Separation and Purification Technology</i> , 2017, 184, 26-33.	3.9	69
20	Selection of suitable fertilizer draw solute for a novel fertilizer-drawn forward osmosis anaerobic membrane bioreactor hybrid system. <i>Bioresource Technology</i> , 2016, 210, 26-34.	4.8	66
21	An advanced online monitoring approach to study the scaling behavior in direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2018, 546, 50-60.	4.1	64
22	Spatially-resolved in-situ quantification of biofouling using optical coherence tomography (OCT) and 3D image analysis in a spacer filled channel. <i>Journal of Membrane Science</i> , 2017, 524, 673-681.	4.1	60
23	Forecasting of Wastewater Treatment Plant Key Features Using Deep Learning-Based Models: A Case Study. <i>IEEE Access</i> , 2020, 8, 184475-184485.	2.6	60
24	Multi-effect distillation brine treatment by membrane distillation: Effect of antiscalant and antifoaming agents on membrane performance and scaling control. <i>Desalination</i> , 2020, 493, 114653.	4.0	58
25	Cleaning strategies in ceramic microfiltration membranes fouled by oil and particulate matter in produced water. <i>Desalination</i> , 2009, 236, 160-169.	4.0	57
26	Assessing the removal of organic micro-pollutants from anaerobic membrane bioreactor effluent by fertilizer-drawn forward osmosis. <i>Journal of Membrane Science</i> , 2017, 533, 84-95.	4.1	53
27	Removal and biotransformation pathway of antibiotic sulfamethoxazole from municipal wastewater treatment by anaerobic membrane bioreactor. <i>Journal of Hazardous Materials</i> , 2019, 380, 120894.	6.5	51
28	Integrated approach to characterize fouling on a flat sheet membrane gravity driven submerged membrane bioreactor. <i>Bioresource Technology</i> , 2016, 222, 335-343.	4.8	49
29	Deep learning approach for sustainable WWTP operation: A case study on data-driven influent conditions monitoring. <i>Sustainable Cities and Society</i> , 2019, 50, 101670.	5.1	48
30	Assessing the removal of organic micropollutants by a novel baffled osmotic membrane bioreactor-microfiltration hybrid system. <i>Bioresource Technology</i> , 2018, 262, 98-106.	4.8	47
31	Development of a biofilm-MBR for shipboard wastewater treatment: The effect of process configuration. <i>Desalination</i> , 2010, 250, 745-750.	4.0	46
32	Organic micro-pollutants removal via anaerobic membrane bioreactor with ultrafiltration and nanofiltration. <i>Journal of Water Reuse and Desalination</i> , 2016, 6, 362-370.	1.2	46
33	Fouling investigation of a full-scale seawater reverse osmosis desalination (SWRO) plant on the Red Sea: Membrane autopsy and pretreatment efficiency. <i>Desalination</i> , 2020, 496, 114536.	4.0	46
34	In-situ biofouling assessment in spacer filled channels using optical coherence tomography (OCT): 3D biofilm thickness mapping. <i>Bioresource Technology</i> , 2017, 229, 231-235.	4.8	45
35	Characterization of membrane biofouling at different operating conditions (flux) in drinking water treatment using confocal laser scanning microscopy (CLSM) and image analysis. <i>Journal of Membrane Science</i> , 2011, 382, 194-201.	4.1	44
36	Monitoring Influent Measurements at Water Resource Recovery Facility Using Data-Driven Soft Sensor Approach. <i>IEEE Sensors Journal</i> , 2019, 19, 342-352.	2.4	44

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37	Metagenomic analysis of sludge and early-stage biofilm communities of a submerged membrane bioreactor. <i>Science of the Total Environment</i> , 2020, 701, 134682.	3.9	43
38	Transparent exopolymer particles (TEP) removal efficiency by a combination of coagulation and ultrafiltration to minimize SWRO membrane fouling. <i>Water Research</i> , 2016, 102, 485-493.	5.3	41
39	Fouling control in a gravity-driven membrane (GDM) bioreactor treating primary wastewater by using relaxation and/or air scouring. <i>Journal of Membrane Science</i> , 2020, 610, 118261.	4.1	41
40	Triple-bore hollow fiber membrane contactor for liquid desiccant based air dehumidification. <i>Journal of Membrane Science</i> , 2016, 514, 135-142.	4.1	40
41	Vacuum membrane distillation of liquid desiccants utilizing hollow fiber membranes. <i>Separation and Purification Technology</i> , 2018, 199, 57-63.	3.9	40
42	Assessment of membrane reactor design in the performance of a hybrid biofilm membrane bioreactor (BF-MBR). <i>Desalination</i> , 2006, 199, 328-330.	4.0	39
43	Evaluation of membrane fouling mitigation strategies in an algal membrane photobioreactor (AMPBR) treating secondary wastewater effluent. <i>Science of the Total Environment</i> , 2020, 708, 134548.	3.9	39
44	Influence of fertilizer draw solution properties on the process performance and microbial community structure in a side-stream anaerobic fertilizer-drawn forward osmosis " ultrafiltration bioreactor. <i>Bioresource Technology</i> , 2017, 240, 149-156.	4.8	36
45	Influence of loading rates on production and characteristics of retentate from a biofilm membrane bioreactor (BF-MBR). <i>Desalination</i> , 2006, 199, 490-492.	4.0	34
46	A Data-Driven Soft Sensor to Forecast Energy Consumption in Wastewater Treatment Plants: A Case Study. <i>IEEE Sensors Journal</i> , 2021, 21, 4908-4917.	2.4	34
47	Organic micropollutants removal in sequential batch reactor followed by nanofiltration from municipal wastewater treatment. <i>Bioresource Technology</i> , 2018, 268, 648-657.	4.8	33
48	Cake layer characterization in Activated Sludge Membrane Bioreactors: Real-time analysis. <i>Journal of Membrane Science</i> , 2019, 578, 163-171.	4.1	33
49	Performance of a novel baffled osmotic membrane bioreactor-microfiltration hybrid system under continuous operation for simultaneous nutrient removal and mitigation of brine discharge. <i>Bioresource Technology</i> , 2017, 240, 50-58.	4.8	32
50	Real-time monitoring of membrane fouling development during early stages of activated sludge membrane bioreactor operation. <i>Chemical Engineering Research and Design</i> , 2018, 120, 313-320.	2.7	32
51	Genome-resolved metagenomic analysis reveals roles of microbial community members in full-scale seawater reverse osmosis plant. <i>Water Research</i> , 2019, 149, 263-271.	5.3	31
52	Combination of selected enzymes with cetyltrimethylammonium bromide in biofilm inactivation, removal and regrowth. <i>Food Research International</i> , 2017, 95, 101-107.	2.9	30
53	Methane production in an anaerobic osmotic membrane bioreactor using forward osmosis: Effect of reverse salt flux. <i>Bioresource Technology</i> , 2017, 239, 285-293.	4.8	30
54	Impact of reverse nutrient diffusion on membrane biofouling in fertilizer-drawn forward osmosis. <i>Journal of Membrane Science</i> , 2017, 539, 108-115.	4.1	28

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55	Nutrient utilization and oxygen production by <i>Chlorella vulgaris</i> in a hybrid membrane bioreactor and algal membrane photobioreactor system. <i>Bioresource Technology</i> , 2017, 237, 64-71.	4.8	27
56	Monitoring Influent Conditions of Wastewater Treatment Plants by Nonlinear Data-Based Techniques. <i>IEEE Access</i> , 2019, 7, 108827-108837.	2.6	27
57	Evaluating the effect of hydraulic retention time on fouling development and biomass characteristics in an algal membrane photobioreactor treating a secondary wastewater effluent. <i>Bioresource Technology</i> , 2020, 309, 123348.	4.8	27
58	Liquid desiccant dehumidification and regeneration process to meet cooling and freshwater needs of desert greenhouses. <i>Desalination and Water Treatment</i> , 2016, 57, 23430-23442.	1.0	25
59	The effect of bilge water on a Biofilm MBR process in an integrated shipboard wastewater treatment system. <i>Desalination</i> , 2009, 236, 56-64.	4.0	24
60	Managed Aquifer Recharge (MAR) Economics for Wastewater Reuse in Low Population Wadi Communities, Kingdom of Saudi Arabia. <i>Water (Switzerland)</i> , 2014, 6, 2322-2338.	1.2	24
61	Advanced organic and biological analysis of dual media filtration used as a pretreatment in a full-scale seawater desalination plant. <i>Desalination</i> , 2016, 385, 83-92.	4.0	24
62	Effect of engineered environment on microbial community structure in biofilter and biofilm on reverse osmosis membrane. <i>Water Research</i> , 2017, 124, 227-237.	5.3	24
63	Advanced coagulation using in-situ generated liquid ferrate, Fe (VI), for enhanced pretreatment in seawater RO desalination during algal blooms. <i>Science of the Total Environment</i> , 2019, 685, 1193-1200.	3.9	24
64	Evaluation of potential particulate/colloidal TEP foulants on a pilot scale SWRO desalination study. <i>Desalination</i> , 2016, 393, 127-134.	4.0	23
65	Controlling harmful algal blooms (HABs) by coagulation-flocculation-sedimentation using liquid ferrate and clay. <i>Chemosphere</i> , 2021, 274, 129676.	4.2	23
66	Ultrasonic time domain reflectometry for investigation of particle size effect in oil emulsion separation with crossflow microfiltration. <i>Desalination</i> , 2009, 236, 143-151.	4.0	21
67	High frequency back-pulsing for fouling development control in ceramic microfiltration for treatment of produced water. <i>Desalination and Water Treatment</i> , 2011, 28, 137-152.	1.0	21
68	Role of dissolved air flotation (DAF) and liquid ferrate on mitigation of algal organic matter (AOM) during algal bloom events in RO desalination. <i>Separation and Purification Technology</i> , 2021, 256, 117795.	3.9	21
69	In-line coagulation prior to ceramic microfiltration for surface water treatment minimisation of flocculation pre-treatment. <i>Desalination and Water Treatment</i> , 2012, 42, 163-176.	1.0	20
70	Double-deck aerated biofilm membrane bioreactor with sludge control for municipal wastewater treatment. <i>AIChE Journal</i> , 2009, 55, 1291-1297.	1.8	19
71	A closed-loop forward osmosis-nanofiltration hybrid system: Understanding process implications through full-scale simulation. <i>Desalination</i> , 2017, 421, 169-178.	4.0	18
72	Hollow fibre membrane-based liquid desiccant humidity control for controlled environment agriculture. <i>Biosystems Engineering</i> , 2019, 183, 47-57.	1.9	18

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73	Comparison of membrane filtration performance between biofilm-MBR and activated sludge-MBR. Desalination and Water Treatment, 2012, 48, 285-293.	1.0	16
74	Combining high performance fertiliser with surfactants to reduce the reverse solute flux in the fertiliser drawn forward osmosis process. Journal of Environmental Management, 2018, 226, 217-225.	3.8	16
75	Effect of microbial community structure on organic removal and biofouling in membrane adsorption bioreactor used in seawater pretreatment. Chemical Engineering Journal, 2016, 294, 30-39.	6.6	15
76	Evaluating the effect of different draw solutes in a baffled osmotic membrane bioreactor-microfiltration using optical coherence tomography with real wastewater. Bioresource Technology, 2018, 263, 306-316.	4.8	15
77	Study of Hybrid Vertical Anaerobic Sludgeâ€Aerobic Biofilm Membrane Bioreactor for Wastewater Treatment. Water Environment Research, 2010, 82, 273-280.	1.3	14
78	Simultaneous nitrification-denitrification using baffled osmotic membrane bioreactor-microfiltration hybrid system at different oxic-anoxic conditions for wastewater treatment. Journal of Environmental Management, 2020, 253, 109685.	3.8	14
79	Organic carbon movement through two SWRO facilities from source water to pretreatment to product with relevance to membrane biofouling. Desalination, 2017, 407, 52-60.	4.0	12
80	UV and bacteriophages as a chemical-free approach for cleaning membranes from anaerobic bioreactors. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	11
81	Early biofouling detection using fluorescence-based extracellular enzyme activity. Enzyme and Microbial Technology, 2019, 120, 43-51.	1.6	10
82	Polishing of anaerobic secondary effluent by Chlorella vulgaris under low light intensity. Bioresource Technology, 2017, 241, 360-368.	4.8	9
83	Advanced coagulation with liquid ferrate as SWRO desalination pretreatment during severe algal bloom. Process performance, environmental impact, and cost analysis. Desalination, 2022, 537, 115864.	4.0	8
84	MBR: Technology gets timely EU cash boost. Filtration and Separation, 2006, 43, 20-23.	0.2	7
85	Removal of Bacteria and Organic Carbon by an Integrated Ultrafiltrationâ€Nanofiltration Desalination Pilot Plant. Membranes, 2020, 10, 223.	1.4	6