

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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86
docs citations

86
times ranked

3974
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced coagulation with liquid ferrate as SWRO desalination pretreatment during severe algal bloom. Process performance, environmental impact, and cost analysis. <i>Desalination</i> , 2022, 537, 115864.	4.0	8
2	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
3	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
4	Controlling harmful algal blooms (HABs) by coagulation-flocculation-sedimentation using liquid ferrate and clay. <i>Chemosphere</i> , 2021, 274, 129676.	4.2	23
5	UV and bacteriophages as a chemical-free approach for cleaning membranes from anaerobic bioreactors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	11
6	Simultaneous nitrification-denitrification using baffled osmotic membrane bioreactor-microfiltration hybrid system at different oxic-anoxic conditions for wastewater treatment. <i>Journal of Environmental Management</i> , 2020, 253, 109685.	3.8	14
7	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
8	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
9	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
10	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
11	Removal of Bacteria and Organic Carbon by an Integrated Ultrafiltration–Nanofiltration Desalination Pilot Plant. <i>Membranes</i> , 2020, 10, 223.	1.4	6
12	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
13	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
14	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
15	Monitoring Influent Conditions of Wastewater Treatment Plants by Nonlinear Data-Based Techniques. <i>IEEE Access</i> , 2019, 7, 108827-108837.	2.6	27
16	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
17	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
18	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

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19	Hollow fibre membrane-based liquid desiccant humidity control for controlled environment agriculture. <i>Biosystems Engineering</i> , 2019, 183, 47-57.	1.9	18
20	Cake layer characterization in Activated Sludge Membrane Bioreactors: Real-time analysis. <i>Journal of Membrane Science</i> , 2019, 578, 163-171.	4.1	33
21	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
22	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
23	Early biofouling detection using fluorescence-based extracellular enzyme activity. <i>Enzyme and Microbial Technology</i> , 2019, 120, 43-51.	1.6	10
24	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
25	Vacuum membrane distillation of liquid desiccants utilizing hollow fiber membranes. <i>Separation and Purification Technology</i> , 2018, 199, 57-63.	3.9	40
26	Fouling development in direct contact membrane distillation: Non-invasive monitoring and destructive analysis. <i>Water Research</i> , 2018, 132, 34-41.	5.3	80
27	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
28	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
29	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
30	Evaluating the effect of different draw solutes in a baffled osmotic membrane bioreactor-microfiltration using optical coherence tomography with real wastewater. <i>Bioresource Technology</i> , 2018, 263, 306-316.	4.8	15
31	Combining high performance fertiliser with surfactants to reduce the reverse solute flux in the fertiliser drawn forward osmosis process. <i>Journal of Environmental Management</i> , 2018, 226, 217-225.	3.8	16
32	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
33	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
34	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
35	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
36	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

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37	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
38	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
39	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
40	Environmental and economic impacts of fertilizer drawn forward osmosis and nanofiltration hybrid system. <i>Desalination</i> , 2017, 416, 76-85.	4.0	70
41	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
42	Polishing of anaerobic secondary effluent by <i>Chlorella vulgaris</i> under low light intensity. <i>Bioresource Technology</i> , 2017, 241, 360-368.	4.8	9
43	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
44	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
45	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
46	Organic carbon movement through two SWRO facilities from source water to pretreatment to product with relevance to membrane biofouling. <i>Desalination</i> , 2017, 407, 52-60.	4.0	12
47	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
48	Aquaporin based biomimetic membrane in forward osmosis: Chemical cleaning resistance and practical operation. <i>Desalination</i> , 2017, 420, 208-215.	4.0	79
49	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
50	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
51	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
52	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
53	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
54	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

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55	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
56	Evaluation of potential particulate/colloidal TEP foulants on a pilot scale SWRO desalination study. <i>Desalination</i> , 2016, 393, 127-134.	4.0	23
57	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
58	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
59	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
60	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
61	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
62	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
63	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
64	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
65	Effect of microbial community structure on organic removal and biofouling in membrane adsorption bioreactor used in seawater pretreatment. <i>Chemical Engineering Journal</i> , 2016, 294, 30-39.	6.6	15
66	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
67	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
68	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
69	Comparison of membrane filtration performance between biofilm-MBR and activated sludge-MBR. <i>Desalination and Water Treatment</i> , 2012, 48, 285-293.	1.0	16
70	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
71	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
72	Study of Hybrid Vertical Anaerobic Sludge Aerobic Biofilm Membrane Bioreactor for Wastewater Treatment. <i>Water Environment Research</i> , 2010, 82, 273-280.	1.3	14

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73	Development of a biofilm-MBR for shipboard wastewater treatment: The effect of process configuration. <i>Desalination</i> , 2010, 250, 745-750.	4.0	46
74	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
75	Double-deck aerated biofilm membrane bioreactor with sludge control for municipal wastewater treatment. <i>AIChE Journal</i> , 2009, 55, 1291-1297.	1.8	19
76	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
77	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
78	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
79	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
80	The development of a biofilm membrane bioreactor. <i>Desalination</i> , 2007, 202, 135-143.	4.0	161
81	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
82	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
83	The effect of coagulation with MF/UF membrane filtration for the removal of virus in drinking water. <i>Journal of Membrane Science</i> , 2006, 279, 364-371.	4.1	165
84	MBR: Technology gets timely EU cash boost. <i>Filtration and Separation</i> , 2006, 43, 20-23.	0.2	7
85	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