

Morten Christensen

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

2,244
citations

257450

24
h-index

265206

42
g-index

101
all docs

101
docs citations

101
times ranked

2399
citing authors

#	ARTICLE	IF	CITATIONS
1	Precipitation and recovery of phosphorus from the wastewater hydrolysis tank. <i>Science of the Total Environment</i> , 2022, 813, 151875.	8.0	21
2	Oleic acid-coated magnetic particles for removal of oil from produced water. <i>Journal of Petroleum Science and Engineering</i> , 2022, 211, 110088.	4.2	5
3	Fouling of membranes in membrane bioreactors for wastewater treatment: Planktonic bacteria can have a significant contribution. <i>Water Environment Research</i> , 2021, 93, 207-216.	2.7	10
4	A review of membrane crystallization, forward osmosis and membrane capacitive deionization for liquid mining. <i>Resources, Conservation and Recycling</i> , 2021, 168, 105273.	10.8	41
5	Selective electrodialysis for simultaneous but separate phosphate and ammonium recovery. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 2177-2186.	2.2	27
6	Hydraulic resistance and osmotic pressure effects in fouling layers during MBR operations. <i>Journal of Membrane Science</i> , 2021, 627, 119213.	8.2	8
7	Mechanisms behind <sc>pH</sc> changes during electrocoagulation. <i>AIChE Journal</i> , 2021, 67, e17384.	3.6	9
8	A comparison of vacuum and direct contact membrane distillation for phosphorus and ammonia recovery from wastewater. <i>Journal of Water Process Engineering</i> , 2021, 44, 102350.	5.6	23
9	Pilot-scale study for phosphorus recovery by sludge acidification and dewatering. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 2928-2934.	2.2	8
10	Nutrients Enrichment and Process Repercussions in Hybrid Microfiltration Osmotic Membrane Bioreactor: A Guideline for Forward Osmosis Development Based on Lab-Scale Experience. <i>Water (Switzerland)</i> , 2020, 12, 1098.	2.7	2
11	Phosphorus Removal from Manure by Mechanical Separation using Salt and Polymers: Theoretical Simulations and Experimental Data. <i>Applied Engineering in Agriculture</i> , 2020, 36, 175-185.	0.7	2
12	Industrial Wastewater Treatment by Nanofiltration – A Case Study on the Anodizing Industry. <i>Membranes</i> , 2020, 10, 85.	3.0	11
13	Particle Track and Trace during Membrane Filtration by Direct Observation with a High Speed Camera. <i>Membranes</i> , 2020, 10, 68.	3.0	5
14	Critical moisture point of sludge and its link to vapour sorption and dewatering. <i>Chemosphere</i> , 2019, 236, 124299.	8.2	6
15	New Training to Meet the Global Phosphorus Challenge. <i>Environmental Science & Technology</i> , 2019, 53, 8479-8481.	10.0	29
16	Teaching science to chefs: The benefits, challenges and opportunities. <i>International Journal of Gastronomy and Food Science</i> , 2019, 16, 100133.	3.0	3
17	Treatment of Wastewater Solutions from Anodizing Industry by Membrane Distillation and Membrane Crystallization. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 287.	2.5	13
18	Layered double hydroxides for phosphorus recovery from acidified and non-acidified dewatered sludge. <i>Water Research</i> , 2019, 153, 208-216.	11.3	53

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19	Effect of reverse sodium flux and pH on ammoniacal nitrogen transport through biomimetic membranes. Separation and Purification Technology, 2019, 217, 40-47.	7.9	11
20	Impact of iron and hydrogen peroxide on membrane degradation for polymer electrolyte membrane water electrolysis: Computational and experimental investigation on fluoride emission. Journal of Power Sources, 2019, 420, 54-62.	7.8	48
21	Modeling approach to describe fouling removal during relaxation. Journal of the Taiwan Institute of Chemical Engineers, 2019, 94, 119-123.	5.3	2
22	The quest for umami: Can sous vide contribute?. International Journal of Gastronomy and Food Science, 2018, 13, 129-133.	3.0	18
23	Forward osmosis with high-performing TFC membranes for concentration of digester centrate prior to phosphorus recovery. Separation and Purification Technology, 2018, 197, 449-456.	7.9	22
24	Test of precoat filtration technology for treatment of swimming pool water. Water Science and Technology, 2018, 77, 748-758.	2.5	13
25	Sludge fractionation as a method to study and predict fouling in MBR systems. Separation and Purification Technology, 2018, 194, 329-337.	7.9	30
26	Membrane crystallization for phosphorus recovery and ammonia stripping from reject water from sludge dewatering process. Desalination, 2018, 440, 156-160.	8.2	48
27	Acidification and recovery of phosphorus from digested and non-digested sludge. Water Research, 2018, 146, 307-317.	11.3	54
28	Wastewater treatment and concentration of phosphorus with the hybrid osmotic microfiltration bioreactor. Journal of Membrane Science, 2018, 559, 107-116.	8.2	9
29	Enhancing the health potential of processed meat: the effect of chitosan or carboxymethyl cellulose enrichment on inherent microstructure, water mobility and oxidation in a meat-based food matrix. Food and Function, 2018, 9, 4017-4027.	4.6	27
30	Data for the size of cholesterol-fat micelles as a function of bile salt concentration and the physico-chemical properties of six liquid experimental pine-derived phytosterol formulations in a cholesterol-containing artificial intestine fluid. Data in Brief, 2017, 10, 478-481.	1.0	3
31	The effect of particle surface charge density on filter cake properties during dead-end filtration. Chemical Engineering Science, 2017, 163, 155-166.	3.8	12
32	Unified understanding of physico-chemical properties of activated sludge and fouling propensity. Water Research, 2017, 120, 117-132.	11.3	48
33	Non-ionic soft materials influence on filtration resistance and cake dry matter content. AIChE Journal, 2017, 63, 2241-2247.	3.6	3
34	Ammonia Recovery from Pig Slurry Using a Membrane Contactor—Influence of Slurry Pretreatment. Water, Air, and Soil Pollution, 2017, 228, 1.	2.4	16
35	Design and fabrication of silica-based nanofiltration membranes for water desalination and detoxification. Microporous and Mesoporous Materials, 2017, 237, 117-126.	4.4	34
36	Membrane filtration device for studying compression of fouling layers in membrane bioreactors. PLoS ONE, 2017, 12, e0181652.	2.5	6

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37	Treated Seawater as a Magnesium Source for Phosphorous Recovery from Wastewater – A Feasibility and Cost Analysis. <i>Membranes</i> , 2016, 6, 54.	3.0	14
38	Direct observation of fouling phenomena during cross-flow filtration: Influence of particle surface charge. <i>Journal of Membrane Science</i> , 2016, 510, 546-558.	8.2	24
39	Effects of relaxation time on fouling propensity in membrane bioreactors. <i>Journal of Membrane Science</i> , 2016, 504, 176-184.	8.2	28
40	Inhibition of cholesterol transport in an intestine cell model by pine-derived phytosterols. <i>Chemistry and Physics of Lipids</i> , 2016, 200, 62-73.	3.2	17
41	Fouling of a microfiltration membrane by humic-like substances: a mathematical approach to modelling permeate flux and membrane retention. <i>Water Science and Technology</i> , 2016, 73, 3033-3040.	2.5	4
42	Surface modification of reverse osmosis membranes with zwitterionic polymer to reduce biofouling. <i>Water Science and Technology: Water Supply</i> , 2015, 15, 999-1010.	2.1	21
43	Electroviscous Effects in Ceramic Nanofiltration Membranes. <i>ChemPhysChem</i> , 2015, 16, 3397-3407.	2.1	7
44	Dewatering in biological wastewater treatment: A review. <i>Water Research</i> , 2015, 82, 14-24.	11.3	231
45	Recovery of biomolecules from marinated herring (<i>Clupea harengus</i>) brine using ultrafiltration through ceramic membranes. <i>LWT - Food Science and Technology</i> , 2015, 63, 423-429.	5.2	16
46	Inorganic Membranes for the Recovery of Effluent from Municipal Wastewater Treatment Plants. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 3462-3472.	3.7	14
47	Roughness analysis of single nanoparticles applied to atomic force microscopy images of hydrated casein micelles. <i>Food Hydrocolloids</i> , 2015, 45, 168-174.	10.7	13
48	Compressibility of fouling layers in membrane bioreactors. <i>Journal of Membrane Science</i> , 2015, 475, 65-70.	8.2	26
49	Irreversible fouling of membrane bioreactors due to formation of a non-biofilm gel layer. <i>Water Science and Technology</i> , 2014, 69, 1641-1647.	2.5	5
50	Fouling of enhanced biological phosphorus removal – membrane bioreactors by humic-like substances. <i>Chemosphere</i> , 2014, 117, 144-150.	8.2	14
51	Dependence of shear and concentration on fouling in a membrane bioreactor with rotating membrane discs. <i>AIChE Journal</i> , 2014, 60, 706-715.	3.6	14
52	Comparison of ceramic and polymeric ultrafiltration membranes for treating wastewater from metalworking industry. <i>Chemical Engineering Journal</i> , 2014, 255, 403-410.	12.7	40
53	Modeling water flux and salt rejection of mesoporous γ -alumina and microporous organosilica membranes. <i>Journal of Membrane Science</i> , 2014, 470, 307-315.	8.2	14
54	One-step deposition of ultrafiltration SiC membranes on macroporous SiC supports. <i>Journal of Membrane Science</i> , 2014, 472, 232-240.	8.2	55

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55	Deposition of thin ultrafiltration membranes on commercial SiC microfiltration tubes. <i>Ceramics International</i> , 2014, 40, 3277-3285.	4.8	45
56	Filtration of core-shell colloids in studying the dewatering properties of water-swollen materials. <i>Chemical Engineering Science</i> , 2014, 116, 558-566.	3.8	9
57	On the reversibility of cake buildup and compression in a membrane bioreactor. <i>Journal of Membrane Science</i> , 2014, 455, 152-161.	8.2	24
58	Comparison of the Characteristics and Separation Efficiency of Different Mink and Pig Manures. <i>Transactions of the ASABE</i> , 2014, , 1109-1119.	1.1	0
59	Filtration properties of activated sludge in municipal MBR wastewater treatment plants are related to microbial community structure. <i>Water Research</i> , 2013, 47, 6719-6730.	11.3	25
60	Compression and swelling of activated sludge cakes during dewatering. <i>Water Research</i> , 2012, 46, 4999-5008.	11.3	23
61	Modeling cake buildup under TMP-step filtration in a membrane bioreactor: Cake compressibility is significant. <i>Water Research</i> , 2012, 46, 4330-4338.	11.3	53
62	Modeling approach to determine cake buildup and compression in a high-shear membrane bioreactor. <i>Journal of Membrane Science</i> , 2012, 409-410, 335-345.	8.2	29
63	Numerical model of gravity drainage of compressible organic slurries. <i>Powder Technology</i> , 2012, 217, 189-198.	4.2	10
64	Gravity drainage of activated sludge: New experimental method and considerations of settling velocity, specific cake resistance and cake compressibility. <i>Water Research</i> , 2011, 45, 1941-1950.	11.3	30
65	Sludge quality aspects of full-scale reed bed drainage. <i>Water Research</i> , 2011, 45, 6453-6460.	11.3	17
66	Nonlinear filtration behavior of soft particles: Effect of dynamic cake compression. <i>Powder Technology</i> , 2011, 207, 428-436.	4.2	8
67	The use of dielectric spectroscopy for the characterisation of polymer-induced flocculation of core-shell particles. <i>Journal of Colloid and Interface Science</i> , 2011, 356, 681-689.	9.4	1
68	Solid-Liquid Separation of Animal Slurry in Theory and Practice. , 2011, , 953-986.		22
69	Gravitational drainage of compressible organic materials. <i>AIChE Journal</i> , 2010, 56, 3099-3108.	3.6	14
70	Simulation of sludge dewatering on belt filters. <i>Water Science and Technology</i> , 2010, 61, 3162-3168.	2.5	3
71	Solid-liquid separation of animal slurry in theory and practice. A review. <i>Agronomy for Sustainable Development</i> , 2010, 30, 153-180.	5.3	303
72	Effect of water-swollen organic materials on crossflow filtration performance. <i>Journal of Membrane Science</i> , 2009, 333, 94-99.	8.2	10

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73	Characterization of pig slurry with reference to flocculation and separation. Water Research, 2009, 43, 773-783.	11.3	82
74	The influence of creep on cake solid volume fraction during filtration of core-shell particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 320, 227-232.	4.7	5
75	Flocculation, coagulation, and precipitation of manure affecting three separation techniques. Bioresource Technology, 2008, 99, 8598-8604.	9.6	53
76	Evaluation of Methods to Determine Flocculation Procedure for Manure Separation. Transactions of the ASABE, 2008, 51, 2093-2103.	1.1	13
77	Filtration model for suspensions that form filter cakes with creep behavior. AIChE Journal, 2007, 53, 598-609.	3.6	13
78	Creep effects in activated sludge filter cakes. Powder Technology, 2007, 177, 23-33.	4.2	17
79	Pressure and concentration profiles in filter cake consisting of core/shell latex particle. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 290, 295-303.	4.7	13
80	Study of the compositional heterogeneity in poly(N-isopropylacrylamide-acrylic acid) microgels by potentiometric titration experiments. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 252, 61-69.	4.7	25
81	New approach to determining consolidation coefficients using cake-filtration experiments. Powder Technology, 2004, 142, 98-102.	4.2	18
82	Growth and proton exchange in recombinant Escherichia coli BL21. Enzyme and Microbial Technology, 2002, 31, 566-574.	3.2	22