

Knud Villy Christensen

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

2,647
citations

361045

20
h-index

276539

41
g-index

45
all docs

45
docs citations

45
times ranked

3449
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of the current state of biodiesel production using enzymatic transesterification. <i>Biotechnology and Bioengineering</i> , 2009, 102, 1298-1315.	1.7	646
2	Solid-liquid separation of animal slurry in theory and practice. A review. <i>Agronomy for Sustainable Development</i> , 2010, 30, 153-180.	2.2	303
3	Advances in biopolymer-based membrane preparation and applications. <i>Journal of Membrane Science</i> , 2018, 564, 562-586.	4.1	255
4	A review of the biogas industry in China. <i>Energy Policy</i> , 2011, 39, 6073-6081.	4.2	241
5	Ammonia recovery from agricultural wastes by membrane distillation: Fouling characterization and mechanism. <i>Water Research</i> , 2014, 56, 1-10.	5.3	140
6	Process simulation and economical evaluation of enzymatic biodiesel production plant. <i>Bioresource Technology</i> , 2010, 101, 5266-5274.	4.8	136
7	Ammonium Fertilizers Production from Manure: A Critical Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2015, 45, 1469-1521.	6.6	124
8	Influence of the reaction conditions on the enzyme catalyzed transesterification of castor oil: A possible step in biodiesel production. <i>Bioresource Technology</i> , 2017, 243, 366-374.	4.8	73
9	Biodiesel production catalyzed by liquid and immobilized enzymes: Optimization and economic analysis. <i>Chemical Engineering Research and Design</i> , 2019, 141, 1-14.	2.7	53
10	Fouling mitigation in membrane distillation processes during ammonia stripping from pig manure. <i>Journal of Membrane Science</i> , 2015, 484, 119-132.	4.1	51
11	A membrane contactor for ammonia stripping, pilot scale experience and modeling. <i>Desalination</i> , 2006, 199, 172-174.	4.0	47
12	Influence of green solvent extraction on carotenoid yield from shrimp (<i>Pandalus borealis</i>) processing waste. <i>Journal of Food Engineering</i> , 2015, 155, 22-28.	2.7	47
13	The BIOREKÂ® concept: a hybrid membrane bioreactor concept for very strong wastewater. <i>Desalination</i> , 2005, 183, 407-415.	4.0	45
14	Full scale plant with membrane based concentration of blackcurrant juice on the basis of laboratory and pilot scale tests. <i>Chemical Engineering and Processing: Process Intensification</i> , 2012, 54, 12-21.	1.8	45
15	Stabilising phycocyanin by anionic micelles. <i>Food Chemistry</i> , 2018, 239, 771-780.	4.2	42
16	Process design and economic evaluation of green extraction methods for recovery of astaxanthin from shrimp waste. <i>Chemical Engineering Research and Design</i> , 2017, 117, 73-82.	2.7	31
17	Application of aquaporin-based forward osmosis membranes for processing of digestate liquid fractions. <i>Chemical Engineering Journal</i> , 2019, 371, 583-592.	6.6	31
18	Using direct contact membrane distillation for whey protein concentration. <i>Desalination</i> , 2006, 200, 523-525.	4.0	30

#	ARTICLE	IF	CITATIONS
19	Evaluation of Reaction Mechanisms and Kinetic Parameters for the Transesterification of Castor Oil by Liquid Enzymes. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 9478-9488.	1.8	28
20	Fast cleavage of phycocyanobilin from phycocyanin for use in food colouring. <i>Food Chemistry</i> , 2018, 240, 655-661.	4.2	27
21	Treatment of Manure and Digestate Liquid Fractions Using Membranes: Opportunities and Challenges. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 3107.	1.2	22
22	Solidâ€“Liquid Separation of Animal Slurry in Theory and Practice. , 2011, , 953-986.		22
23	A model of direct contact membrane distillation for black currant juice. <i>Journal of Food Engineering</i> , 2011, 107, 405-414.	2.7	17
24	Valuable Biomolecules from Nine North Atlantic Red Macroalgae: Amino Acids, Fatty Acids, Carotenoids, Minerals and Metals. <i>Natural Resources</i> , 2016, 07, 157-183.	0.2	17
25	Ammonia Recovery from Pig Slurry Using a Membrane Contactorâ€™Influence of Slurry Pretreatment. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	1.1	16
26	A Method for Estimating Mass-Transfer Coefficients in a Biofilter from Membrane Inlet Mass Spectrometer Data. <i>Journal of the Air and Waste Management Association</i> , 2009, 59, 155-162.	0.9	15
27	Optimization of the Recovery of Anthocyanins from Chokeberry Juice Pomace by Homogenization in Acidified Water. <i>Waste and Biomass Valorization</i> , 2021, 12, 1815-1827.	1.8	15
28	Transesterification of Castor Oil Catalyzed by Liquid Enzymes: Optimization of Reaction Conditions. <i>Computer Aided Chemical Engineering</i> , 2017, 40, 2863-2868.	0.3	14
29	A Biocascade Approach Towards the Recovery of High-Value Natural Products from Biowaste: State-of-Art and Future Trends. <i>Waste and Biomass Valorization</i> , 2021, 12, 1143-1166.	1.8	14
30	The Application of Membrane Contactors for Ammonia Recovery from Pig Slurry. <i>Procedia Engineering</i> , 2012, 44, 1642-1645.	1.2	13
31	Microfiltration and ultrafiltration as a post-treatment of biogas plant digestates for producing concentrated fertilizers. <i>Desalination and Water Treatment</i> , 2015, 55, 1639-1653.	1.0	13
32	Membrane fractionation of herring marinade for separation and recovery of fats, proteins, amino acids, salt, acetic acid and water. <i>Journal of Food Engineering</i> , 2015, 158, 39-47.	2.7	13
33	Novel investigation of enzymatic biodiesel reaction by isothermal calorimetry. <i>Thermochemica Acta</i> , 2010, 501, 84-90.	1.2	12
34	Inline NH ₃ removal from biogas digesters. <i>Biomass and Bioenergy</i> , 2013, 50, 10-18.	2.9	12
35	Ultrafiltration of separated digestate by tubular membranes: Influence of feed pretreatment on hydraulic performance and heavy metals removal. <i>Journal of Environmental Management</i> , 2019, 250, 109404.	3.8	11
36	Green Approaches to Extract Astaxanthin from Shrimp Waste: Process Design and Economic Evaluation. <i>Computer Aided Chemical Engineering</i> , 2016, 38, 649-654.	0.3	4

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37	Kinetics of Phycocyanobilin Cleavage from C-Phycocyanin by Methanolysis. Computer Aided Chemical Engineering, 2016, , 61-66.	0.3	3
38	Fouling of a spiral-wound reverse osmosis membrane processing swine wastewater: effect of cleaning procedure on fouling resistance. Environmental Technology (United Kingdom), 2016, 37, 1704-1715.	1.2	3
39	The effect of seasonality and geographic location on sulphated polysaccharides from brown algae. Aquaculture Research, 2021, 52, 6235-6243.	0.9	3
40	Systematic approach for synthesis of intensified biodiesel production processes. Computer Aided Chemical Engineering, 2010, 28, 1099-1104.	0.3	2
41	Towards a Membrane Process based Parth to Concentrate Willow Extract. Procedia Engineering, 2012, 44, 1736-1738.	1.2	1
42	Extracting activity patterns: Exploratory data analysis on a fucoidan extract data set with mixed variables. Algal Research, 2021, 54, 102220.	2.4	1