Jens Ejbye Schmidt

List of Publications by Year in Descending Order

101 papers	3,133 citations	31 h-index	54 g-index
102 ext. papers	3,410 ext. citations	6.2 avg, IF	5.41 L-index

#	Paper	IF	Citations
101	Feasibility of United Arab Emirates Native Seaweed Ulva intestinalis as a Food Source: Study of Nutritional and Mineral Compositions. *Phycology*, **2022**, 2, 120-131		
100	Life cycle assessment of bioplastic production from whey protein obtained from dairy residues. *Bioresource Technology Reports*, **2021**, 15, 100695	4.1	4
99	Dual-functional paired photoelectrocatalytic system for the photocathodic reduction of CO2 to fuels and the anodic oxidation of furfural to value-added chemicals. *Applied Catalysis B: Environmental*, **2021**, 298, 120520	21.8	8
98	Developing Process Designs for Biorefineries□Definitions, Categories, and Unit Operations. *Energies*, **2020**, 13, 1493	3.1	12
97	Systematic production and characterization of pyrolysis-oil from date tree wastes for bio-fuel applications. *Biomass and Bioenergy*, **2020**, 135, 105523	5.3	32
96	Techno-Economic Assessment of Whey Protein-Based Plastic Production from a Co-Polymerization Process. *Polymers*, **2020**, 12,	4.5	6
95	Catalytic hydrodeoxygenation of biomass-derived pyrolysis oil over alloyed bimetallic Ni3Fe nanocatalyst for high-grade biofuel production. *Energy Conversion and Management*, **2020**, 213, 112859	10.6	26
94	Enhanced short-chain carboxylic acids yield in dark fermentation by cyclic product removal. *Biomass Conversion and Biorefinery*, **2020**, 1	2.3	3
93	Preparation and Characterization of Whey Protein-Based Polymers Produced from Residual Dairy Streams. *Polymers*, **2019**, 11,	4.5	19
92	Techno-economic Analysis of Fermentation-Based Biorefinery: Creating Value from Food Residues **2019**, 535-552		0
91	The Future Perspectives of Dark Fermentation: Moving from Only Biohydrogen to Biochemicals **2019**, 375-412		5
90	Exploring the Selective Lactic Acid Production from Food Waste in Uncontrolled pH Mixed Culture Fermentations Using Different Reactor Configurations **2019**, 461-477		
89	Effect of Total Solid Content and Pretreatment on the Production of Lactic Acid from Mixed Culture Dark Fermentation of Food Waste **2019**, 479-490		
88	Techno-economic Analysis for the Production of Novel Bio-derived Elastomers with Modified Algal Proteins as a Reinforcing Agent **2019**, 639-654		0
87	Characterization of Avicennia marina: An Arid-Coastal Biomass□oward Biorefinery Products **2019**, 669-677		
86	Techno-economic Assessment of Microalgae Biorefinery as a Source of Proteins, Pigments, and Fatty acids: A Case Study for the United Arab Emirates **2019**, 679-693		
85	Factors Affecting Seawater-Based Pretreatment of Lignocellulosic Date Palm Residues **2019**, 695-713		2

84	Pyrolysis Kinetics of Arid-Land Biomasses **2019**, 715-725		
83	Screening and Production of Biogas from Macro Algae Biomass of Padina boergesenii, Colpomenia sinuosa, and Ulva sp. **2019**, 727-740		1
82	Analysis and Optimization of Multi-actor Biorefineries **2019**, 49-75		
81	Evaluation of Marine Synechococcus for an Algal Biorefinery in Arid Regions. *Energies*, **2019**, 12, 2233	3.1	1
80	Effect of total solid content and pretreatment on the production of lactic acid from mixed culture dark fermentation of food waste. *Waste Management*, **2018**, 77, 516-521	8.6	23
79	Valorization of Arid Region Abattoir Animal Waste: Determination of Biomethane Potential. *Waste and Biomass Valorization*, **2018**, 9, 2327-2335	3.2	2
78	Process simulation and economic assessment of hydrothermal pretreatment and enzymatic hydrolysis of multi-feedstock lignocellulose - Separate vs combined processing. *Bioresource Technology*, **2018**, 249, 835-843	11	27
77	Increasing Profits in Food Waste BiorefineryÂ Techno-Economic Analysis. *Energies*, **2018**, 11, 1551	3.1	59
76	Natural antibacterial agents from arid-region pretreated lignocellulosic biomasses and extracts for the control of lactic acid bacteria in yeast fermentation. *AMB Express*, **2018**, 8, 127	4.1	7
75	Pyrolysis Kinetics of the Arid Land Biomass Halophyte Salicornia Bigelovii and Phoenix Dactylifera Using Thermogravimetric Analysis. *Energies*, **2018**, 11, 2283	3.1	7
74	Techno-economic analysis for the production of novel, bio-derived elastomers with modified algal proteins as a reinforcing agent. *Algal Research*, **2018**, 33, 337-344	5	3
73	Waste Biorefinery in Arid/Semiarid Regions **2018**, 605-621		
72	Organosolv delignification of agricultural residues (date palm fronds, Phoenix dactylifera L.) of the United Arab Emirates. *Applied Energy*, **2017**, 185, 1040-1050	10.7	26
71	Reviving Pretreatment Effectiveness of Deep Eutectic Solvents on Lignocellulosic Date Palm Residues by Prior Recalcitrance Reduction. *Industrial & Engineering Chemistry Research*, **2017**, 56, 3167-3174	3.9	56
70	Exploring the selective lactic acid production from food waste in uncontrolled pH mixed culture fermentations using different reactor configurations. *Bioresource Technology*, **2017**, 238, 416-424	11	34
69	Hydrothermal pretreatment and enzymatic hydrolysis of mixed green and woody lignocellulosics from arid regions. *Bioresource Technology*, **2017**, 238, 369-378	11	17
68	Peptide Domains as Reinforcement in Protein-Based Elastomers. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 8568-8578	8.3	16
67	Factors affecting seawater-based pretreatment of lignocellulosic date palm residues. *Bioresource Technology*, **2017**, 245, 540-548	11	4

66	One-dimensional modeling of pervaporation systems using a semi-empirical flux model. *Separation and Purification Technology*, **2017**, 174, 502-512	8.3	15
65	Hydrothermal Pretreatment: Process Modeling and Economic Assessment Within the Framework of Biorefinery Processes **2017**, 207-235		2
64	Prospecting of renewable energy technologies for the Emirate of Abu Dhabi: a techno-economic analysis. *Progress in Industrial Ecology*, **2016**, 10, 301	0.8	4
63	Biogas potential for electricity generation in the Emirate of Abu Dhabi. *Biomass Conversion and Biorefinery*, **2016**, 6, 39-47	2.3	14
62	Recovery of carboxylic acids produced during dark fermentation of food waste by adsorption on Amberlite IRA-67 and activated carbon. *Bioresource Technology*, **2016**, 217, 137-40	11	50
61	Estimation of Bioenergy Potential for Local Biomass in the United Arab Emirates. *Emirates Journal of Food and Agriculture*, **2016**, 28, 99	1	25
60	Economically optimal multi-actor processing networks: material flows and price assignment of the intermediates using Lagrangian decomposition. *Computer Aided Chemical Engineering*, **2016**, 38, 1383-1388	0.6	1
59	Evaluation of the production of lipids for fuels and proteins from microalgae by decomposition of the processing network. *Computer Aided Chemical Engineering*, **2016**, 1635-1640	0.6	4
58	Optimization of Lignocellulosic Waste Biorefinery using Multi-Actor Multi-Objective Mathematical Framework. *Computer Aided Chemical Engineering*, **2016**, 1317-1322	0.6	2
57	Waste biorefinery in arid/semi-arid regions. *Bioresource Technology*, **2016**, 215, 21-28	11	41
56	Dark fermentation biorefinery in the present and future (bio)chemical industry. *Reviews in Environmental Science and Biotechnology*, **2015**, 14, 473-498	13.9	98
55	Comparison of different pretreatment strategies for ethanol production of West African biomass. *Applied Biochemistry and Biotechnology*, **2015**, 175, 2589-601	3.2	19
54	Converting the organic fraction of solid waste from the city of Abu Dhabi to valuable products via dark fermentation--Economic and energy assessment. *Waste Management*, **2015**, 40, 82-91	8.6	43
53	Organosolv Fractionation of Palm Tree Residues. *Energy Procedia*, **2015**, 75, 742-747	2.3	9
52	Evaluation of Composition and Biogas Production Potential from Seagrass (Halodule uninervis) Native to Abu Dhabi. *Energy Procedia*, **2015**, 75, 760-766	2.3	4
51	Seawater as Alternative to Freshwater in Pretreatment of Date Palm Residues for Bioethanol Production in Coastal and/or Arid Areas. *ChemSusChem*, **2015**, 8, 3823-31	8.3	36
50	Net-Energy Analysis of Integrated Food and Bioenergy Systems Exemplified by a Model of a Self-Sufficient System of Dairy Farms. *Frontiers in Energy Research*, **2015**, 3,	3.8	3
49	Hydrothermal Pretreatment of Date Palm (Phoenix dactylifera L.) Leaflets and Rachis to Enhance Enzymatic Digestibility and Bioethanol Potential. *BioMed Research International*, **2015**, 2015, 216454	3	19

48	Exploring Opportunities for the Production of Chemicals from Municipal Solid Wastes within the Framework of a Biorefinery. *Computer Aided Chemical Engineering*, **2015**, 37, 2123-2128	0.6	4
47	A Novel Approach for the Identification of Economic Opportunities within the Framework of a Biorefinery. *Computer Aided Chemical Engineering*, **2015**, 37, 1175-1180	0.6	7
46	Effect of anaerobiosis on indigenous microorganisms in blackwater with fish offal as co-substrate. *Water Research*, **2014**, 63, 1-9	12.5	3
45	Compositional analysis and projected biofuel potentials from common West African agricultural residues. *Biomass and Bioenergy*, **2014**, 63, 210-217	5.3	34
44	Ensiling as biological pretreatment of grass (Festulolium Hykor): The effect of composition, dry matter, and inocula on cellulose convertibility. *Biomass and Bioenergy*, **2013**, 58, 303-312	5.3	39
43	Wet oxidation pretreatment of rape straw for ethanol production. *Biomass and Bioenergy*, **2012**, 39, 94-105	5.3	56
42	Co-production of ethanol, biogas, protein fodder and natural fertilizer in organic farming--evaluation of a concept for a farm-scale biorefinery. *Bioresource Technology*, **2012**, 104, 440-6	11	40
41	Consequences of field N2O emissions for the environmental sustainability of plant-based biofuels produced within an organic farming system. *GCB Bioenergy*, **2012**, 4, 435-452	5.6	25
40	PPRODUCTION OF 2ND GENERATION BIOETHANOL FROM LUCERNE OPTIMIZATION OF HYDROTHERMAL PRETREATMENT. *BioResources*, **2012**, 7,	1.3	11
39	Optimization of microwave pretreatment on wheat straw for ethanol production. *Biomass and Bioenergy*, **2011**, 35, 3859-3864	5.3	64
38	Anaerobic digestion of waste activated sludge comparison of thermal pretreatments with thermal inter-stage treatments. *Journal of Chemical Technology and Biotechnology*, **2011**, 86, 238-245	3.5	47
37	Ensiling Wet-storage method for lignocellulosic biomass for bioethanol production. *Biomass and Bioenergy*, **2011**, 35, 2087-2092	5.3	35
36	A Simulation Model of Combined Biogas, Bioethanol and Protein Fodder Co-Production in Organic Farming. *International Journal of Chemical Reactor Engineering*, **2009**, 7,	1.2	2
35	Long term studies on the anaerobic biodegradability of MTBE and other gasoline ethers. *Journal of Hazardous Materials*, **2009**, 163, 427-32	12.8	14
34	Ex-situ bioremediation of polycyclic aromatic hydrocarbons in sewage sludge. *Journal of Hazardous Materials*, **2009**, 164, 1568-72	12.8	25
33	Influence of wastewater characteristics on methane potential in food-processing industry wastewaters. *Water Research*, **2008**, 42, 2195-203	12.5	68
32	Modeling the competitive effect of ammonium oxidizers and heterotrophs on the degradation of MTBE in a packed bed reactor. *Water Research*, **2008**, 42, 3098-108	12.5	11
31	Model description and kinetic parameter analysis of MTBE biodegradation in a packed bed reactor. *Water Research*, **2008**, 42, 3122-34	12.5	9

30	Innovative process scheme for removal of organic matter, phosphorus and nitrogen from pig manure. *Water Research*, **2008**, 42, 4083-90	12.5	68
29	Effect of sludges on bacteria in agricultural soil. Analysis at laboratory and outdoor lysimeter scale. *Ecotoxicology and Environmental Safety*, **2008**, 69, 277-88	7	6
28	Examining the biodegradation of endocrine disrupting bisphenol A and nonylphenol in WWTPs. *Water Science and Technology*, **2008**, 57, 1253-6	2.2	28
27	Estimation of the fraction of biologically active methyl tert-butyl ether degraders in a heterogeneous biomass sample. *Biotechnology Letters*, **2008**, 30, 111-6	3	1
26	Potential priority pollutants in sewage sludge. *Desalination*, **2008**, 226, 371-388	10.3	48
25	Advanced oxidation of acid and reactive dyes: Effect of Fenton treatment on aerobic, anoxic and anaerobic processes. *Dyes and Pigments*, **2008**, 78, 117-130	4.6	97
24	Inactivation of ANAMMOX communities under concurrent operation of anaerobic ammonium oxidation (ANAMMOX) and denitrification. *Bioresource Technology*, **2008**, 99, 3331-6	11	250
23	Microbial dynamics in anaerobic enrichment cultures degrading di-n-butyl phthalic acid ester. *FEMS Microbiology Ecology*, **2008**, 66, 472-83	4.3	4
22	Identifying model pollutants to investigate biodegradation of hazardous XOCs in WWTPs. *Science of the Total Environment*, **2007**, 373, 122-30	10.2	14
21	Fate of organic pollutants after sewage sludge spreading on agricultural soils: a 30-years field-scale recording. *Water Practice and Technology*, **2007**, 2,	0.9	8
20	Safe Recycling of Sewage Sludge on Agricultural Land□Biowaste. *Chemical Engineering Research and Design*, **2006**, 84, 253-257	5.5	9
19	Phthalic acid and benzo[a]pyrene in soil□plant□water systems amended with contaminated sewage sludge. *Environmental Chemistry Letters*, **2006**, 4, 201-206	13.3	6
18	Strategies for changing temperature from mesophilic to thermophilic conditions in anaerobic CSTR reactors treating sewage sludge. *Water Research*, **2005**, 39, 1481-8	12.5	129
17	Effects of process stability on anaerobic biodegradation of LAS in UASB reactors. *Biotechnology and Bioengineering*, **2005**, 89, 759-65	4.9	31
16	Hydraulics of laboratory and full-scale upflow anaerobic sludge blanket (UASB) reactors. *Biotechnology and Bioengineering*, **2005**, 91, 387-91	4.9	39
15	A 25-year record of polycyclic aromatic hydrocarbons in soils amended with sewage sludges. *Environmental Chemistry Letters*, **2005**, 3, 140-144	13.3	17
14	Method for determination of methane potentials of solid organic waste. *Waste Management*, **2004**, 24, 393-400	8.6	363
13	Anaerobic biodegradation of spent sulphite liquor in a UASB reactor. *Bioresource Technology*, **2002**, 84, 15-20	11	28

12	Acetate conversion in anaerobic biogas reactors: traditional and molecular tools for studying this important group of anaerobic microorganisms. *Biodegradation*, **2000**, 11, 359-64	4.1	19
11	Immobilization patterns and dynamics of acetate-utilizing methanogens immobilized in sterile granular sludge in upflow anaerobic sludge blanket reactors. *Applied and Environmental Microbiology*, **1999**, 65, 1050-4	4.8	39
10	An automatic system for simultaneous monitoring of gas evolution in multiple closed vessels. *Journal of Microbiological Methods*, **1998**, 33, 93-100	2.8	10
9	Treatment of waste water from a multi-product food processing company in upflow anaerobic sludge blanket (UASB) reactors: The effect of seasonal variation. *Pure and Applied Chemistry*, **1997**, 69, 2447-2452	2.1	8
8	Granular sludge formation in upflow anaerobic sludge blanket (UASB) reactors. *Biotechnology and Bioengineering*, **1996**, 49, 229-46	4.9	304
7	Granulation in thermophilic upflow anaerobic sludge blanket (UASB) reactors. *Antonie Van Leeuwenhoek*, **1995**, 68, 339-44	2.1	10
6	Interspecies Electron Transfer during Propionate and Butyrate Degradation in Mesophilic, Granular Sludge. *Applied and Environmental Microbiology*, **1995**, 61, 2765-7	4.8	35
5	Extracellular polymers in granular sludge from different upflow anaerobic sludge blanket (UASB) reactors. *Applied Microbiology and Biotechnology*, **1994**, 42, 457-462	5.7	112
4	Effects of magnesium on thermophilic acetate-degrading granules in upflow anaerobic sludge blanket (UASB) reactors. *Enzyme and Microbial Technology*, **1993**, 15, 304-310	3.8	82
3	Effect of medium composition and sludge removal on the production, composition, and architecture of thermophilic (55 degrees C) acetate-utilizing granules from an upflow anaerobic sludge blanket reactor. *Applied and Environmental Microbiology*, **1993**, 59, 2538-45	4.8	48
2	Acetate and hydrogen metabolism in intact and disintegrated granules from an acetate-fed, 55□C, UASB reactor. *Applied Microbiology and Biotechnology*, **1991**, 35, 681	5.7	29
1	Avicennia marina biomass characterization towards bioproducts. *Emirates Journal of Food and Agriculture*,710	1	8