

# Jens Ejbye Schmidt

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Method for determination of methane potentials of solid organic waste. <i>Waste Management</i> , <b>2004</b> , 24, 393-400	8.6	363
100	Granular sludge formation in upflow anaerobic sludge blanket (UASB) reactors. <i>Biotechnology and Bioengineering</i> , <b>1996</b> , 49, 229-46	4.9	304
99	Inactivation of ANAMMOX communities under concurrent operation of anaerobic ammonium oxidation (ANAMMOX) and denitrification. <i>Bioresource Technology</i> , <b>2008</b> , 99, 3331-6	11	250
98	Strategies for changing temperature from mesophilic to thermophilic conditions in anaerobic CSTR reactors treating sewage sludge. <i>Water Research</i> , <b>2005</b> , 39, 1481-8	12.5	129
97	Extracellular polymers in granular sludge from different upflow anaerobic sludge blanket (UASB) reactors. <i>Applied Microbiology and Biotechnology</i> , <b>1994</b> , 42, 457-462	5.7	112
96	Dark fermentation biorefinery in the present and future (bio)chemical industry. <i>Reviews in Environmental Science and Biotechnology</i> , <b>2015</b> , 14, 473-498	13.9	98
95	Advanced oxidation of acid and reactive dyes: Effect of Fenton treatment on aerobic, anoxic and anaerobic processes. <i>Dyes and Pigments</i> , <b>2008</b> , 78, 117-130	4.6	97
94	Effects of magnesium on thermophilic acetate-degrading granules in upflow anaerobic sludge blanket (UASB) reactors. <i>Enzyme and Microbial Technology</i> , <b>1993</b> , 15, 304-310	3.8	82
93	Influence of wastewater characteristics on methane potential in food-processing industry wastewaters. <i>Water Research</i> , <b>2008</b> , 42, 2195-203	12.5	68
92	Innovative process scheme for removal of organic matter, phosphorus and nitrogen from pig manure. <i>Water Research</i> , <b>2008</b> , 42, 4083-90	12.5	68
91	Optimization of microwave pretreatment on wheat straw for ethanol production. <i>Biomass and Bioenergy</i> , <b>2011</b> , 35, 3859-3864	5.3	64
90	Increasing Profits in Food Waste Biorefinery: A Techno-Economic Analysis. <i>Energies</i> , <b>2018</b> , 11, 1551	3.1	59
89	Reviving Pretreatment Effectiveness of Deep Eutectic Solvents on Lignocellulosic Date Palm Residues by Prior Recalcitrance Reduction. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 3167-3174	3.9	56
88	Wet oxidation pretreatment of rape straw for ethanol production. <i>Biomass and Bioenergy</i> , <b>2012</b> , 39, 94-105	10.5	56
87	Recovery of carboxylic acids produced during dark fermentation of food waste by adsorption on Amberlite IRA-67 and activated carbon. <i>Bioresource Technology</i> , <b>2016</b> , 217, 137-40	11	50
86	Potential priority pollutants in sewage sludge. <i>Desalination</i> , <b>2008</b> , 226, 371-388	10.3	48
85	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. <i>Applied and Environmental Microbiology</i> , <b>1993</b> , 59, 2538-45	4.8	48

84	Anaerobic digestion of waste activated sludge—Comparison of thermal pretreatments with thermal inter-stage treatments. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2011</b> , 86, 238-245	3.5	47
83	Converting the organic fraction of solid waste from the city of Abu Dhabi to valuable products via dark fermentation—Economic and energy assessment. <i>Waste Management</i> , <b>2015</b> , 40, 82-91	8.6	43
82	Waste biorefinery in arid/semi-arid regions. <i>Bioresource Technology</i> , <b>2016</b> , 215, 21-28	11	41
81	Co-production of ethanol, biogas, protein fodder and natural fertilizer in organic farming—evaluation of a concept for a farm-scale biorefinery. <i>Bioresource Technology</i> , <b>2012</b> , 104, 440-6	11	40
80	Ensiling as biological pretreatment of grass ( <i>Festulolium Hykor</i> ): The effect of composition, dry matter, and inocula on cellulose convertibility. <i>Biomass and Bioenergy</i> , <b>2013</b> , 58, 303-312	5.3	39
79	Hydraulics of laboratory and full-scale upflow anaerobic sludge blanket (UASB) reactors. <i>Biotechnology and Bioengineering</i> , <b>2005</b> , 91, 387-91	4.9	39
78	Immobilization patterns and dynamics of acetate-utilizing methanogens immobilized in sterile granular sludge in upflow anaerobic sludge blanket reactors. <i>Applied and Environmental Microbiology</i> , <b>1999</b> , 65, 1050-4	4.8	39
77	Seawater as Alternative to Freshwater in Pretreatment of Date Palm Residues for Bioethanol Production in Coastal and/or Arid Areas. <i>ChemSusChem</i> , <b>2015</b> , 8, 3823-31	8.3	36
76	Ensiling—Wet-storage method for lignocellulosic biomass for bioethanol production. <i>Biomass and Bioenergy</i> , <b>2011</b> , 35, 2087-2092	5.3	35
75	Interspecies Electron Transfer during Propionate and Butyrate Degradation in Mesophilic, Granular Sludge. <i>Applied and Environmental Microbiology</i> , <b>1995</b> , 61, 2765-7	4.8	35
74	Exploring the selective lactic acid production from food waste in uncontrolled pH mixed culture fermentations using different reactor configurations. <i>Bioresource Technology</i> , <b>2017</b> , 238, 416-424	11	34
73	Compositional analysis and projected biofuel potentials from common West African agricultural residues. <i>Biomass and Bioenergy</i> , <b>2014</b> , 63, 210-217	5.3	34
72	Systematic production and characterization of pyrolysis-oil from date tree wastes for bio-fuel applications. <i>Biomass and Bioenergy</i> , <b>2020</b> , 135, 105523	5.3	32
71	Effects of process stability on anaerobic biodegradation of LAS in UASB reactors. <i>Biotechnology and Bioengineering</i> , <b>2005</b> , 89, 759-65	4.9	31
70	Acetate and hydrogen metabolism in intact and disintegrated granules from an acetate-fed, 55°C, UASB reactor. <i>Applied Microbiology and Biotechnology</i> , <b>1991</b> , 35, 681	5.7	29
69	Examining the biodegradation of endocrine disrupting bisphenol A and nonylphenol in WWTPs. <i>Water Science and Technology</i> , <b>2008</b> , 57, 1253-6	2.2	28
68	Anaerobic biodegradation of spent sulphite liquor in a UASB reactor. <i>Bioresource Technology</i> , <b>2002</b> , 84, 15-20	11	28
67	Process simulation and economic assessment of hydrothermal pretreatment and enzymatic hydrolysis of multi-feedstock lignocellulose - Separate vs combined processing. <i>Bioresource Technology</i> , <b>2018</b> , 249, 835-843	11	27

66	Organosolv delignification of agricultural residues (date palm fronds, <i>Phoenix dactylifera</i> L.) of the United Arab Emirates. <i>Applied Energy</i> , <b>2017</b> , 185, 1040-1050	10.7	26
65	Catalytic hydrodeoxygenation of biomass-derived pyrolysis oil over alloyed bimetallic Ni3Fe nanocatalyst for high-grade biofuel production. <i>Energy Conversion and Management</i> , <b>2020</b> , 213, 112859	10.6	26
64	Consequences of field N2O emissions for the environmental sustainability of plant-based biofuels produced within an organic farming system. <i>GCB Bioenergy</i> , <b>2012</b> , 4, 435-452	5.6	25
63	Ex-situ bioremediation of polycyclic aromatic hydrocarbons in sewage sludge. <i>Journal of Hazardous Materials</i> , <b>2009</b> , 164, 1568-72	12.8	25
62	Estimation of Bioenergy Potential for Local Biomass in the United Arab Emirates. <i>Emirates Journal of Food and Agriculture</i> , <b>2016</b> , 28, 99	1	25
61	Effect of total solid content and pretreatment on the production of lactic acid from mixed culture dark fermentation of food waste. <i>Waste Management</i> , <b>2018</b> , 77, 516-521	8.6	23
60	Preparation and Characterization of Whey Protein-Based Polymers Produced from Residual Dairy Streams. <i>Polymers</i> , <b>2019</b> , 11,	4.5	19
59	Comparison of different pretreatment strategies for ethanol production of West African biomass. <i>Applied Biochemistry and Biotechnology</i> , <b>2015</b> , 175, 2589-601	3.2	19
58	Hydrothermal Pretreatment of Date Palm ( <i>Phoenix dactylifera</i> L.) Leaflets and Rachis to Enhance Enzymatic Digestibility and Bioethanol Potential. <i>BioMed Research International</i> , <b>2015</b> , 2015, 216454	3	19
57	Acetate conversion in anaerobic biogas reactors: traditional and molecular tools for studying this important group of anaerobic microorganisms. <i>Biodegradation</i> , <b>2000</b> , 11, 359-64	4.1	19
56	Hydrothermal pretreatment and enzymatic hydrolysis of mixed green and woody lignocellulosics from arid regions. <i>Bioresource Technology</i> , <b>2017</b> , 238, 369-378	11	17
55	A 25-year record of polycyclic aromatic hydrocarbons in soils amended with sewage sludges. <i>Environmental Chemistry Letters</i> , <b>2005</b> , 3, 140-144	13.3	17
54	Peptide Domains as Reinforcement in Protein-Based Elastomers. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 8568-8578	8.3	16
53	One-dimensional modeling of pervaporation systems using a semi-empirical flux model. <i>Separation and Purification Technology</i> , <b>2017</b> , 174, 502-512	8.3	15
52	Biogas potential for electricity generation in the Emirate of Abu Dhabi. <i>Biomass Conversion and Biorefinery</i> , <b>2016</b> , 6, 39-47	2.3	14
51	Long term studies on the anaerobic biodegradability of MTBE and other gasoline ethers. <i>Journal of Hazardous Materials</i> , <b>2009</b> , 163, 427-32	12.8	14
50	Identifying model pollutants to investigate biodegradation of hazardous XOCs in WWTPs. <i>Science of the Total Environment</i> , <b>2007</b> , 373, 122-30	10.2	14
49	Developing Process Designs for Biorefineries Definitions, Categories, and Unit Operations. <i>Energies</i> , <b>2020</b> , 13, 1493	3.1	12

48	PPRODUCTION OF 2ND GENERATION BIOETHANOL FROM LUCERNE [OPTIMIZATION OF HYDROTHERMAL PRETREATMENT. <i>BioResources</i> , <b>2012</b> , 7,	1.3	11
47	Modeling the competitive effect of ammonium oxidizers and heterotrophs on the degradation of MTBE in a packed bed reactor. <i>Water Research</i> , <b>2008</b> , 42, 3098-108	12.5	11
46	An automatic system for simultaneous monitoring of gas evolution in multiple closed vessels. <i>Journal of Microbiological Methods</i> , <b>1998</b> , 33, 93-100	2.8	10
45	Granulation in thermophilic upflow anaerobic sludge blanket (UASB) reactors. <i>Antonie Van Leeuwenhoek</i> , <b>1995</b> , 68, 339-44	2.1	10
44	Organosolv Fractionation of Palm Tree Residues. <i>Energy Procedia</i> , <b>2015</b> , 75, 742-747	2.3	9
43	Model description and kinetic parameter analysis of MTBE biodegradation in a packed bed reactor. <i>Water Research</i> , <b>2008</b> , 42, 3122-34	12.5	9
42	Safe Recycling of Sewage Sludge on Agricultural LandBiowaste. <i>Chemical Engineering Research and Design</i> , <b>2006</b> , 84, 253-257	5.5	9
41	Treatment of waste water from a multi-product food processing company in upflow anaerobic sludge blanket (UASB) reactors: The effect of seasonal variation. <i>Pure and Applied Chemistry</i> , <b>1997</b> , 69, 2447-2452	2.1	8
40	Fate of organic pollutants after sewage sludge spreading on agricultural soils: a 30-years field-scale recording. <i>Water Practice and Technology</i> , <b>2007</b> , 2,	0.9	8
39	Avicennia marina biomass characterization towards bioproducts. <i>Emirates Journal of Food and Agriculture</i> , 710	1	8
38	Dual-functional paired photoelectrocatalytic system for the photocathodic reduction of CO <sub>2</sub> to fuels and the anodic oxidation of furfural to value-added chemicals. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 298, 120520	21.8	8
37	A Novel Approach for the Identification of Economic Opportunities within the Framework of a Biorefinery. <i>Computer Aided Chemical Engineering</i> , <b>2015</b> , 37, 1175-1180	0.6	7
36	Natural antibacterial agents from arid-region pretreated lignocellulosic biomasses and extracts for the control of lactic acid bacteria in yeast fermentation. <i>AMB Express</i> , <b>2018</b> , 8, 127	4.1	7
35	Pyrolysis Kinetics of the Arid Land Biomass Halophyte <i>Salicornia Bigelovii</i> and <i>Phoenix Dactylifera</i> Using Thermogravimetric Analysis. <i>Energies</i> , <b>2018</b> , 11, 2283	3.1	7
34	Techno-Economic Assessment of Whey Protein-Based Plastic Production from a Co-Polymerization Process. <i>Polymers</i> , <b>2020</b> , 12,	4.5	6
33	Effect of sludges on bacteria in agricultural soil. Analysis at laboratory and outdoor lysimeter scale. <i>Ecotoxicology and Environmental Safety</i> , <b>2008</b> , 69, 277-88	7	6
32	Phthalic acid and benzo[a]pyrene in soilplantwater systems amended with contaminated sewage sludge. <i>Environmental Chemistry Letters</i> , <b>2006</b> , 4, 201-206	13.3	6
31	The Future Perspectives of Dark Fermentation: Moving from Only Biohydrogen to Biochemicals <b>2019</b> , 375-412		5

30	Prospecting of renewable energy technologies for the Emirate of Abu Dhabi: a techno-economic analysis. <i>Progress in Industrial Ecology</i> , <b>2016</b> , 10, 301	0.8	4
29	Evaluation of Composition and Biogas Production Potential from Seagrass ( <i>Halodule uninervis</i> ) Native to Abu Dhabi. <i>Energy Procedia</i> , <b>2015</b> , 75, 760-766	2.3	4
28	Factors affecting seawater-based pretreatment of lignocellulosic date palm residues. <i>Bioresource Technology</i> , <b>2017</b> , 245, 540-548	11	4
27	Exploring Opportunities for the Production of Chemicals from Municipal Solid Wastes within the Framework of a Biorefinery. <i>Computer Aided Chemical Engineering</i> , <b>2015</b> , 37, 2123-2128	0.6	4
26	Microbial dynamics in anaerobic enrichment cultures degrading di-n-butyl phthalic acid ester. <i>FEMS Microbiology Ecology</i> , <b>2008</b> , 66, 472-83	4.3	4
25	Evaluation of the production of lipids for fuels and proteins from microalgae by decomposition of the processing network. <i>Computer Aided Chemical Engineering</i> , <b>2016</b> , 1635-1640	0.6	4
24	Life cycle assessment of bioplastic production from whey protein obtained from dairy residues. <i>Bioresource Technology Reports</i> , <b>2021</b> , 15, 100695	4.1	4
23	Effect of anaerobiosis on indigenous microorganisms in blackwater with fish offal as co-substrate. <i>Water Research</i> , <b>2014</b> , 63, 1-9	12.5	3
22	Net-Energy Analysis of Integrated Food and Bioenergy Systems Exemplified by a Model of a Self-Sufficient System of Dairy Farms. <i>Frontiers in Energy Research</i> , <b>2015</b> , 3,	3.8	3
21	Enhanced short-chain carboxylic acids yield in dark fermentation by cyclic product removal. <i>Biomass Conversion and Biorefinery</i> , <b>2020</b> , 1	2.3	3
20	Techno-economic analysis for the production of novel, bio-derived elastomers with modified algal proteins as a reinforcing agent. <i>Algal Research</i> , <b>2018</b> , 33, 337-344	5	3
19	Factors Affecting Seawater-Based Pretreatment of Lignocellulosic Date Palm Residues <b>2019</b> , 695-713		2
18	Valorization of Arid Region Abattoir Animal Waste: Determination of Biomethane Potential. <i>Waste and Biomass Valorization</i> , <b>2018</b> , 9, 2327-2335	3.2	2
17	A Simulation Model of Combined Biogas, Bioethanol and Protein Fodder Co-Production in Organic Farming. <i>International Journal of Chemical Reactor Engineering</i> , <b>2009</b> , 7,	1.2	2
16	Hydrothermal Pretreatment: Process Modeling and Economic Assessment Within the Framework of Biorefinery Processes <b>2017</b> , 207-235		2
15	Optimization of Lignocellulosic Waste Biorefinery using Multi-Actor Multi-Objective Mathematical Framework. <i>Computer Aided Chemical Engineering</i> , <b>2016</b> , 1317-1322	0.6	2
14	Screening and Production of Biogas from Macro Algae Biomass of <i>Padina boergesenii</i> , <i>Colpomenia sinuosa</i> , and <i>Ulva</i> sp. <b>2019</b> , 727-740		1
13	Evaluation of Marine Synechococcus for an Algal Biorefinery in Arid Regions. <i>Energies</i> , <b>2019</b> , 12, 2233	3.1	1

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|----|---|-----|---|
| 12 | Estimation of the fraction of biologically active methyl tert-butyl ether degraders in a heterogeneous biomass sample. <i>Biotechnology Letters</i> , <b>2008</b> , 30, 111-6   | 3   | 1 |
| 11 | Economically optimal multi-actor processing networks: material flows and price assignment of the intermediates using Lagrangian decomposition. <i>Computer Aided Chemical Engineering</i> , <b>2016</b> , 38, 1383-1388 | 0.6 | 1 |
| 10 | Techno-economic Analysis of Fermentation-Based Biorefinery: Creating Value from Food Residues <b>2019</b> , 535-552   |     | 0 |
| 9  | Techno-economic Analysis for the Production of Novel Bio-derived Elastomers with Modified Algal Proteins as a Reinforcing Agent <b>2019</b> , 639-654   |     | 0 |
| 8  | Exploring the Selective Lactic Acid Production from Food Waste in Uncontrolled pH Mixed Culture Fermentations Using Different Reactor Configurations <b>2019</b> , 461-477  |     |   |
| 7  | Effect of Total Solid Content and Pretreatment on the Production of Lactic Acid from Mixed Culture Dark Fermentation of Food Waste <b>2019</b> , 479-490  |     |   |
| 6  | Characterization of <i>Avicennia marina</i> : An Arid-Coastal Biomass Toward Biorefinery Products <b>2019</b> , 669-677   |     |   |
| 5  | Techno-economic Assessment of Microalgae Biorefinery as a Source of Proteins, Pigments, and Fatty acids: A Case Study for the United Arab Emirates <b>2019</b> , 679-693  |     |   |
| 4  | Pyrolysis Kinetics of Arid-Land Biomasses <b>2019</b> , 715-725   |     |   |
| 3  | Analysis and Optimization of Multi-actor Biorefineries <b>2019</b> , 49-75  |     |   |
| 2  | Waste Biorefinery in Arid/Semiarid Regions <b>2018</b> , 605-621  |     |   |
| 1  | Feasibility of United Arab Emirates Native Seaweed <i>Ulva intestinalis</i> as a Food Source: Study of Nutritional and Mineral Compositions. <i>Phycology</i> , <b>2022</b> , 2, 120-131                                |     |   |