

Jens Ejbye Schmidt

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

3,867
citations

117453

34
h-index

128067

60
g-index

102
all docs

102
docs citations

102
times ranked

4416
citing authors

#	ARTICLE	IF	CITATIONS
1	Method for determination of methane potentials of solid organic waste. <i>Waste Management</i> , 2004, 24, 393-400.	3.7	418
2	Granular sludge formation in upflow anaerobic sludge blanket (UASB) reactors. <i>Biotechnology and Bioengineering</i> , 2000, 49, 229-246.	1.7	409
3	Inactivation of ANAMMOX communities under concurrent operation of anaerobic ammonium oxidation (ANAMMOX) and denitrification. <i>Bioresource Technology</i> , 2008, 99, 3331-3336.	4.8	289
4	Strategies for changing temperature from mesophilic to thermophilic conditions in anaerobic CSTR reactors treating sewage sludge. <i>Water Research</i> , 2005, 39, 1481-1488.	5.3	149
5	Dark fermentation biorefinery in the present and future (bio)chemical industry. <i>Reviews in Environmental Science and Biotechnology</i> , 2015, 14, 473-498.	3.9	125
6	Extracellular polymers in granular sludge from different upflow anaerobic sludge blanket (UASB) reactors. <i>Applied Microbiology and Biotechnology</i> , 1994, 42, 457-462.	1.7	120
7	Advanced oxidation of acid and reactive dyes: Effect of Fenton treatment on aerobic, anoxic and anaerobic processes. <i>Dyes and Pigments</i> , 2008, 78, 117-130.	2.0	114
8	Effects of magnesium on thermophilic acetate-degrading granules in upflow anaerobic sludge blanket (UASB) reactors. <i>Enzyme and Microbial Technology</i> , 1993, 15, 304-310.	1.6	99
9	Innovative process scheme for removal of organic matter, phosphorus and nitrogen from pig manure. <i>Water Research</i> , 2008, 42, 4083-4090.	5.3	82
10	Increasing Profits in Food Waste Biorefinery—A Techno-Economic Analysis. <i>Energies</i> , 2018, 11, 1551.	1.6	82
11	Influence of wastewater characteristics on methane potential in food-processing industry wastewaters. <i>Water Research</i> , 2008, 42, 2195-2203.	5.3	76
12	Reviving Pretreatment Effectiveness of Deep Eutectic Solvents on Lignocellulosic Date Palm Residues by Prior Recalcitrance Reduction. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 3167-3174.	1.8	74
13	Optimization of microwave pretreatment on wheat straw for ethanol production. <i>Biomass and Bioenergy</i> , 2011, 35, 3859-3864.	2.9	71
14	Recovery of carboxylic acids produced during dark fermentation of food waste by adsorption on Amberlite IRA-67 and activated carbon. <i>Bioresource Technology</i> , 2016, 217, 137-140.	4.8	67
15	Wet oxidation pretreatment of rape straw for ethanol production. <i>Biomass and Bioenergy</i> , 2012, 39, 94-105.	2.9	61
16	Potential priority pollutants in sewage sludge. <i>Desalination</i> , 2008, 226, 371-388.	4.0	59
17	Systematic production and characterization of pyrolysis-oil from date tree wastes for bio-fuel applications. <i>Biomass and Bioenergy</i> , 2020, 135, 105523.	2.9	57
18	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> , 1993, 59, 2538-2545.	1.4	57

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19	Anaerobic digestion of waste activated sludge-comparison of thermal pretreatments with thermal inter-stage treatments. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 238-245.	1.6	54
20	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> , 2015, 40, 82-91.	3.7	49
21	Waste biorefinery in arid/semi-arid regions. <i>Bioresource Technology</i> , 2016, 215, 21-28.	4.8	48
22	Seawater as Alternative to Freshwater in Pretreatment of Date Palm Residues for Bioethanol Production in Coastal and/or Arid Areas. <i>ChemSusChem</i> , 2015, 8, 3823-3831.	3.6	47
23	Catalytic hydrodeoxygenation of biomass-derived pyrolysis oil over alloyed bimetallic Ni ₃ Fe nanocatalyst for high-grade biofuel production. <i>Energy Conversion and Management</i> , 2020, 213, 112859.	4.4	47
24	Exploring the selective lactic acid production from food waste in uncontrolled pH mixed culture fermentations using different reactor configurations. <i>Bioresource Technology</i> , 2017, 238, 416-424.	4.8	46
25	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> , 2013, 58, 303-312.	2.9	45
26	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> , 2012, 104, 440-446.	4.8	44
27	Compositional analysis and projected biofuel potentials from common West African agricultural residues. <i>Biomass and Bioenergy</i> , 2014, 63, 210-217.	2.9	44
28	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> , 1999, 65, 1050-1054.	1.4	44
29	Hydraulics of laboratory and full-scale upflow anaerobic sludge blanket (UASB) reactors. <i>Biotechnology and Bioengineering</i> , 2005, 91, 387-391.	1.7	43
30	Ensiling – Wet-storage method for lignocellulosic biomass for bioethanol production. <i>Biomass and Bioenergy</i> , 2011, 35, 2087-2092.	2.9	43
31	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> , 2018, 77, 516-521.	3.7	43
32	Interspecies Electron Transfer during Propionate and Butyrate Degradation in Mesophilic, Granular Sludge. <i>Applied and Environmental Microbiology</i> , 1995, 61, 2765-2767.	1.4	42
33	Process simulation and economic assessment of hydrothermal pretreatment and enzymatic hydrolysis of multi-feedstock lignocellulose – Separate vs combined processing. <i>Bioresource Technology</i> , 2018, 249, 835-843.	4.8	39
34	Effects of process stability on anaerobic biodegradation of LAS in UASB reactors. <i>Biotechnology and Bioengineering</i> , 2005, 89, 759-765.	1.7	36
35	Acetate and hydrogen metabolism in intact and disintegrated granules from an acetate-fed, 55°C, UASB reactor. <i>Applied Microbiology and Biotechnology</i> , 1991, 35, 681.	1.7	35
36	Organosolv delignification of agricultural residues (date palm fronds, <i>Phoenix dactylifera</i> L.) of the United Arab Emirates. <i>Applied Energy</i> , 2017, 185, 1040-1050.	5.1	34

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37	Ex-situ bioremediation of polycyclic aromatic hydrocarbons in sewage sludge. <i>Journal of Hazardous Materials</i> , 2009, 164, 1568-1572.	6.5	33
38	Examining the biodegradation of endocrine disrupting bisphenol A and nonylphenol in WWTPs. <i>Water Science and Technology</i> , 2008, 57, 1253-1256.	1.2	31
39	Anaerobic biodegradation of spent sulphite liquor in a UASB reactor. <i>Bioresource Technology</i> , 2002, 84, 15-20.	4.8	28
40	Developing Process Designs for Biorefineries—Definitions, Categories, and Unit Operations. <i>Energies</i> , 2020, 13, 1493.	1.6	28
41	Consequences of field N_2O emissions for the environmental sustainability of plant-based biofuels produced within an organic farming system. <i>GCB Bioenergy</i> , 2012, 4, 435-452.	2.5	27
42	Estimation of Bioenergy Potential for Local Biomass in the United Arab Emirates. <i>Emirates Journal of Food and Agriculture</i> , 2016, 28, 99.	1.0	27
43	Preparation and Characterization of Whey Protein-Based Polymers Produced from Residual Dairy Streams. <i>Polymers</i> , 2019, 11, 722.	2.0	26
44	Dual-functional paired photoelectrocatalytic system for the photocathodic reduction of CO_2 to fuels and the anodic oxidation of furfural to value-added chemicals. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120520.	10.8	24
45	Life cycle assessment of bioplastic production from whey protein obtained from dairy residues. <i>Bioresource Technology Reports</i> , 2021, 15, 100695.	1.5	23
46	Acetate conversion in anaerobic biogas reactors: traditional and molecular tools for studying this important group of anaerobic microorganisms. <i>Biodegradation</i> , 2000, 11, 359-364.	1.5	22
47	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> , 2015, 2015, 1-13.	0.9	21
48	Hydrothermal pretreatment and enzymatic hydrolysis of mixed green and woody lignocellulosics from arid regions. <i>Bioresource Technology</i> , 2017, 238, 369-378.	4.8	21
49	Comparison of Different Pretreatment Strategies for Ethanol Production of West African Biomass. <i>Applied Biochemistry and Biotechnology</i> , 2015, 175, 2589-2601.	1.4	20
50	Biogas potential for electricity generation in the Emirate of Abu Dhabi. <i>Biomass Conversion and Biorefinery</i> , 2016, 6, 39-47.	2.9	19
51	Peptide Domains as Reinforcement in Protein-Based Elastomers. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8568-8578.	3.2	19
52	One-dimensional modeling of pervaporation systems using a semi-empirical flux model. <i>Separation and Purification Technology</i> , 2017, 174, 502-512.	3.9	19
53	Techno-Economic Assessment of Whey Protein-Based Plastic Production from a Co-Polymerization Process. <i>Polymers</i> , 2020, 12, 847.	2.0	18
54	A 25-year record of polycyclic aromatic hydrocarbons in soils amended with sewage sludges. <i>Environmental Chemistry Letters</i> , 2005, 3, 140-144.	8.3	17

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55	Identifying model pollutants to investigate biodegradation of hazardous XOCs in WWTPs. <i>Science of the Total Environment</i> , 2007, 373, 122-130.	3.9	16
56	Long term studies on the anaerobic biodegradability of MTBE and other gasoline ethers. <i>Journal of Hazardous Materials</i> , 2009, 163, 427-432.	6.5	14
57	PPRODUCTION OF 2ND GENERATION BIOETHANOL FROM LUCERNE – OPTIMIZATION OF HYDROTHERMAL PRETREATMENT. <i>BioResources</i> , 2012, 7, .	0.5	13
58	Safe Recycling of Sewage Sludge on Agricultural Land – Biowaste. <i>Chemical Engineering Research and Design</i> , 2006, 84, 253-257.	2.7	12
59	Granulation in thermophilic upflow anaerobic sludge blanket (UASB) reactors. <i>Antonie Van Leeuwenhoek</i> , 1995, 68, 339-344.	0.7	11
60	An automatic system for simultaneous monitoring of gas evolution in multiple closed vessels. <i>Journal of Microbiological Methods</i> , 1998, 33, 93-100.	0.7	11
61	Modeling the competitive effect of ammonium oxidizers and heterotrophs on the degradation of MTBE in a packed bed reactor. <i>Water Research</i> , 2008, 42, 3098-3108.	5.3	11
62	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> , 1997, 69, 2447-2452.	0.9	10
63	Organosolv Fractionation of Palm Tree Residues. <i>Energy Procedia</i> , 2015, 75, 742-747.	1.8	10
64	A Novel Approach for the Identification of Economic Opportunities within the Framework of a Biorefinery. <i>Computer Aided Chemical Engineering</i> , 2015, 37, 1175-1180.	0.3	10
65	Fate of organic pollutants after sewage sludge spreading on agricultural soils: a 30-years field-scale recording. <i>Water Practice and Technology</i> , 2007, 2, .	1.0	9
66	Model description and kinetic parameter analysis of MTBE biodegradation in a packed bed reactor. <i>Water Research</i> , 2008, 42, 3122-3134.	5.3	9
67	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> , 2018, 8, 127.	1.4	9
68	Pyrolysis Kinetics of the Arid Land Biomass Halophyte <i>Salicornia Bigelovii</i> and <i>Phoenix Dactylifera</i> Using Thermogravimetric Analysis. <i>Energies</i> , 2018, 11, 2283.	1.6	9
69	<i>Avicennia marina</i> biomass characterization towards bioproducts. <i>Emirates Journal of Food and Agriculture</i> , 0, , 710.	1.0	8
70	Factors affecting seawater-based pretreatment of lignocellulosic date palm residues. <i>Bioresource Technology</i> , 2017, 245, 540-548.	4.8	7
71	Phthalic acid and benzo[a]pyrene in soil – plant – water systems amended with contaminated sewage sludge. <i>Environmental Chemistry Letters</i> , 2006, 4, 201-206.	8.3	6
72	Effect of sludges on bacteria in agricultural soil. Analysis at laboratory and outdoor lysimeter scale. <i>Ecotoxicology and Environmental Safety</i> , 2008, 69, 277-288.	2.9	6

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73	Effect of anaerobiosis on indigenous microorganisms in blackwater with fish offal as co-substrate. <i>Water Research</i> , 2014, 63, 1-9.	5.3	6
74	The Future Perspectives of Dark Fermentation: Moving from Only Biohydrogen to Biochemicals. , 2019, , 375-412.		6
75	Microbial dynamics in anaerobic enrichment cultures degrading di-n-butyl phthalic acid ester. <i>FEMS Microbiology Ecology</i> , 2008, 66, 472-483.	1.3	5
76	Prospecting of renewable energy technologies for the Emirate of Abu Dhabi: a techno-economic analysis. <i>Progress in Industrial Ecology</i> , 2016, 10, 301.	0.1	5
77	Evaluation of Composition and Biogas Production Potential from Seagrass (<i>Halodule uninervis</i>) Native to Abu Dhabi. <i>Energy Procedia</i> , 2015, 75, 760-766.	1.8	4
78	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> , 2015, 3, .	1.2	4
79	Exploring Opportunities for the Production of Chemicals from Municipal Solid Wastes within the Framework of a Biorefinery. <i>Computer Aided Chemical Engineering</i> , 2015, 37, 2123-2128.	0.3	4
80	Evaluation of the production of lipids for fuels and proteins from microalgae by decomposition of the processing network. <i>Computer Aided Chemical Engineering</i> , 2016, , 1635-1640.	0.3	4
81	Evaluation of Marine Synechococcus for an Algal Biorefinery in Arid Regions. <i>Energies</i> , 2019, 12, 2233.	1.6	4
82	A Simulation Model of Combined Biogas, Bioethanol and Protein Fodder Co-Production in Organic Farming. <i>International Journal of Chemical Reactor Engineering</i> , 2009, 7, .	0.6	3
83	Valorization of Arid Region Abattoir Animal Waste: Determination of Biomethane Potential. <i>Waste and Biomass Valorization</i> , 2018, 9, 2327-2335.	1.8	3
84	Techno-economic analysis for the production of novel, bio-derived elastomers with modified algal proteins as a reinforcing agent. <i>Algal Research</i> , 2018, 33, 337-344.	2.4	3
85	Enhanced short-chain carboxylic acids yield in dark fermentation by cyclic product removal. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 51-59.	2.9	3
86	Hydrothermal Pretreatment: Process Modeling and Economic Assessment Within the Framework of Biorefinery Processes. , 2017, , 207-235.		3
87	Feasibility of United Arab Emirates Native Seaweed <i>Ulva intestinalis</i> as a Food Source: Study of Nutritional and Mineral Compositions. <i>Phycology</i> , 2022, 2, 120-131.	1.7	3
88	Optimization of Lignocellulosic Waste Biorefinery using Multi-Actor Multi-Objective Mathematical Framework. <i>Computer Aided Chemical Engineering</i> , 2016, , 1317-1322.	0.3	2
89	Factors Affecting Seawater-Based Pretreatment of Lignocellulosic Date Palm Residues. , 2019, , 695-713.		2
90	Screening and Production of Biogas from Macro Algae Biomass of <i>Padina boergesenii</i> , <i>Colpomenia sinuosa</i> , and <i>Ulva</i> sp.. , 2019, , 727-740.		2

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91	Estimation of the fraction of biologically active methyl tert-butyl ether degraders in a heterogeneous biomass sample. <i>Biotechnology Letters</i> , 2007, 30, 111-116.	1.1	1
92	Economically optimal multi-actor processing networks: material flows and price assignment of the intermediates using Lagrangian decomposition. <i>Computer Aided Chemical Engineering</i> , 2016, 38, 1383-1388.	0.3	1
93	Techno-economic Analysis of Fermentation-Based Biorefinery: Creating Value from Food Residues. , 2019, , 535-552.		1
94	Techno-economic Analysis for the Production of Novel Bio-derived Elastomers with Modified Algal Proteins as a Reinforcing Agent. , 2019, , 639-654.		1
95	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.		1
96	Waste Biorefinery in Arid/Semiarid Regions. , 2018, , 605-621.		0
97	Exploring the Selective Lactic Acid Production from Food Waste in Uncontrolled pH Mixed Culture Fermentations Using Different Reactor Configurations. , 2019, , 461-477.		0
98	Effect of Total Solid Content and Pretreatment on the Production of Lactic Acid from Mixed Culture Dark Fermentation of Food Waste. , 2019, , 479-490.		0
99	Characterization of <i>Avicennia marina</i> : An Arid-Coastal Biomass Toward Biorefinery Products. , 2019, , 669-677.		0
100	Pyrolysis Kinetics of Arid-Land Biomasses. , 2019, , 715-725.		0
101	Analysis and Optimization of Multi-actor Biorefineries. , 2019, , 49-75.		0
102	Ex-situ bioremediation of polycyclic aromatic hydrocarbons in sewage sludge. <i>WIT Transactions on Ecology and the Environment</i> , 2008, , .	0.0	0