

# Jens Bo Holm-Nielsen

## List of Publications by Citations

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102  
papers

3,267  
citations

29  
h-index

56  
g-index

113  
ext. papers

4,163  
ext. citations

4.1  
avg, IF

5.95  
L-index

#	Paper	IF	Citations
102	The future of anaerobic digestion and biogas utilization. <i>Bioresource Technology</i> , <b>2009</b> , 100, 5478-84	11	979
101	Monitoring of anaerobic digestion processes: A review perspective. <i>Renewable and Sustainable Energy Reviews</i> , <b>2011</b> , 15, 3141-3155	16.2	182
100	Hydrothermal liquefaction of <i>Spirulina</i> and <i>Nannochloropsis salina</i> under subcritical and supercritical water conditions. <i>Bioresource Technology</i> , <b>2013</b> , 131, 413-9	11	177
99	. <i>IEEE Access</i> , <b>2020</b> , 8, 74432-74457	3.5	118
98	Influence of different pre-treatment routes on the anaerobic digestion of a filamentous algae. <i>Renewable Energy</i> , <b>2013</b> , 50, 476-480	8.1	115
97	An Experimental Estimation of Hybrid ANFIS/PSO-Based MPPT for PV Grid Integration Under Fluctuating Sun Irradiance. <i>IEEE Systems Journal</i> , <b>2020</b> , 14, 1218-1229	4.3	107
96	Future European biogas: Animal manure, straw and grass potentials for a sustainable European biogas production. <i>Biomass and Bioenergy</i> , <b>2018</b> , 111, 154-164	5.3	104
95	A Hybrid Photovoltaic-Fuel Cell for Grid Integration With Jaya-Based Maximum Power Point Tracking: Experimental Performance Evaluation. <i>IEEE Access</i> , <b>2019</b> , 7, 82978-82990	3.5	75
94	Dynamic biogas upgrading based on the Sabatier process: thermodynamic and dynamic process simulation. <i>Bioresource Technology</i> , <b>2015</b> , 178, 323-329	11	74
93	Utilization of surplus electricity from wind power for dynamic biogas upgrading: Northern Germany case study. <i>Biomass and Bioenergy</i> , <b>2014</b> , 66, 126-132	5.3	71
92	On-line near infrared monitoring of glycerol-boosted anaerobic digestion processes: evaluation of process analytical technologies. <i>Biotechnology and Bioengineering</i> , <b>2008</b> , 99, 302-13	4.9	70
91	Comprehensive Review on Detection and Classification of Power Quality Disturbances in Utility Grid With Renewable Energy Penetration. <i>IEEE Access</i> , <b>2020</b> , 8, 146807-146830	3.5	49
90	Photovoltaic Integrated Hybrid Microgrid Structured Electric Vehicle Charging Station and Its Energy Management Approach. <i>Energies</i> , <b>2019</b> , 12, 168	3.1	48
89	Near infrared and acoustic chemometrics monitoring of volatile fatty acids and dry matter during co-digestion of manure and maize silage. <i>Bioresource Technology</i> , <b>2009</b> , 100, 1711-9	11	47
88	Piezoelectric energy harvester converting wind aerodynamic energy into electrical energy for microelectronic application. <i>IET Renewable Power Generation</i> , <b>2021</b> , 15, 1968-1975	2.9	47
87	Representative process sampling In practice: Variographic analysis and estimation of total sampling errors (TSE). <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2007</b> , 88, 41-59	3.8	46
86	Internet of Things Applications as Energy Internet in Smart Grids and Smart Environments. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 972	2.6	45

85	Comprehensive Review of Distributed FACTS Control Algorithms for Power Quality Enhancement in Utility Grid With Renewable Energy Penetration. <i>IEEE Access</i> , <b>2020</b> , 8, 107614-107634	3.5	44
84	Conceptual design of an integrated hydrothermal liquefaction and biogas plant for sustainable bioenergy production. <i>Bioresource Technology</i> , <b>2013</b> , 129, 402-10	11	42
83	A Hybrid Moth-Flame Fuzzy Logic Controller Based Integrated Cuk Converter Fed Brushless DC Motor for Power Factor Correction. <i>Electronics (Switzerland)</i> , <b>2018</b> , 7, 288	2.6	38
82	Ethanol production from maize silage as lignocellulosic biomass in anaerobically digested and wet-oxidized manure. <i>Bioresource Technology</i> , <b>2008</b> , 99, 5327-34	11	37
81	A Hybrid Photovoltaic-Fuel Cell-Based Single-Stage Grid Integration With Lyapunov Control Scheme. <i>IEEE Systems Journal</i> , <b>2020</b> , 14, 3334-3342	4.3	37
80	A New Structure of High Voltage Gain SEPIC Converter for Renewable Energy Applications. <i>IEEE Access</i> , <b>2019</b> , 7, 89857-89868	3.5	36
79	Bioenergy production from roadside grass: A case study of the feasibility of using roadside grass for biogas production in Denmark. <i>Resources, Conservation and Recycling</i> , <b>2014</b> , 93, 124-133	11.9	35
78	Non-Isolated High-Gain Triple Port DCDC Buck-Boost Converter With Positive Output Voltage for Photovoltaic Applications. <i>IEEE Access</i> , <b>2020</b> , 8, 113649-113666	3.5	34
77	Transflexive Embedded near Infrared Monitoring for Key Process Intermediates in Anaerobic Digestion/Biogas Production. <i>Journal of Near Infrared Spectroscopy</i> , <b>2007</b> , 15, 123-135	1.5	33
76	Reliability enhancement of electrical power system including impacts of renewable energy sources: a comprehensive review. <i>IET Generation, Transmission and Distribution</i> , <b>2020</b> , 14, 1799-1815	2.5	30
75	Large Scale Renewable Energy Integration: Issues and Solutions. <i>Energies</i> , <b>2019</b> , 12, 1996	3.1	29
74	Internet of things augmented a novel PSO-employed modified zeta converter-based photovoltaic maximum power tracking system: hardware realisation. <i>IET Power Electronics</i> , <b>2020</b> , 13, 2775-2781	2.2	29
73	Design and Implementation of Multilevel Inverters for Fuel Cell Energy Conversion System. <i>IEEE Access</i> , <b>2020</b> , 8, 183690-183707	3.5	25
72	A combination anaerobic digestion scheme for biogas production from dairy effluent—STR and ABR, and biogas upgrading. <i>Biomass and Bioenergy</i> , <b>2018</b> , 111, 241-247	5.3	24
71	Representative sampling for process analytical characterization of heterogeneous bioslurry systems—reference study of sampling issues in PAT. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2006</b> , 83, 114-126	3.8	24
70	Improved Perturb and Observation Maximum Power Point Tracking Technique for Solar Photovoltaic Power Generation Systems. <i>IEEE Systems Journal</i> , <b>2021</b> , 15, 3024-3035	4.3	23
69	Critical Review of PV Grid-Tied Inverters. <i>Energies</i> , <b>2019</b> , 12, 1921	3.1	22
68	A Hybrid PV-Battery System for ON-Grid and OFF-Grid Applications—Controller-In-Loop Simulation Validation. <i>Energies</i> , <b>2020</b> , 13, 755	3.1	22

67	Pretreatment of whole-crop harvested, ensiled maize for ethanol production. <i>Applied Biochemistry and Biotechnology</i> , <b>2008</b> , 148, 23-33	3.2	22
66	Design and Implementation of Seventeen Level Inverter With Reduced Components. <i>IEEE Access</i> , <b>2021</b> , 9, 16746-16760	3.5	21
65	Energy management strategy for solid-state transformer-based solar charging station for electric vehicles in smart grids. <i>IET Renewable Power Generation</i> , <b>2020</b> , 14, 3843-3852	2.9	18
64	A Three-Phase Transformerless T-Type- NPC-MLI for Grid Connected PV Systems with Common-Mode Leakage Current Mitigation. <i>Energies</i> , <b>2019</b> , 12, 2434	3.1	16
63	Inertia emulation control technique based frequency control of grid-connected single-phase rooftop photovoltaic system with battery and supercapacitor. <i>IET Renewable Power Generation</i> , <b>2020</b> , 14, 1156-1163	2.9	14
62	An improved hybrid PV-wind power system with MPPT for water pumping applications. <i>International Transactions on Electrical Energy Systems</i> , <b>2020</b> , 30, e12210	2.2	14
61	A Novel Asymmetrical 21-Level Inverter for Solar PV Energy System With Reduced Switch Count. <i>IEEE Access</i> , <b>2021</b> , 9, 11761-11775	3.5	13
60	The energy balance of utilising meadow grass in Danish biogas production. <i>Resources, Conservation and Recycling</i> , <b>2015</b> , 104, 265-275	11.9	10
59	Hydrogen production using an anaerobic baffled reactor [Mass balances for pathway analysis and gas composition profiles. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 12154-12161	6.7	10
58	Influence of trace substances on methanation catalysts used in dynamic biogas upgrading. <i>Bioresource Technology</i> , <b>2015</b> , 178, 319-322	11	10
57	Monitoring of biogas test plants [process analytical technology approach. <i>Journal of Chemometrics</i> , <b>2011</b> , 25, 357-365	1.6	10
56	Design and Implementation of 31-Level Asymmetrical Inverter With Reduced Components. <i>IEEE Access</i> , <b>2021</b> , 9, 22788-22803	3.5	10
55	Acoustic chemometric prediction of total solids in bioslurry: A full-scale feasibility study for on-line biogas process monitoring. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2012</b> , 110, 135-143	3.8	9
54	Computational Tools for Modeling and Analysis of Power Generation and Transmission Systems of the Smart Grid. <i>IEEE Systems Journal</i> , <b>2020</b> , 14, 3641-3652	4.3	8
53	Identification of Water Hammering for Centrifugal Pump Drive Systems. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 2683	2.6	8
52	Double Stage Double Output DCDC Converters for High Voltage Loads in Fuel Cell Vehicles. <i>Energies</i> , <b>2019</b> , 12, 3681	3.1	8
51	Design and Implementation of a Single-Phase 15-Level Inverter With Reduced Components for Solar PV Applications. <i>IEEE Access</i> , <b>2021</b> , 9, 581-594	3.5	8
50	Deep Learning for Fault Diagnostics in Bearings, Insulators, PV Panels, Power Lines, and Electric Vehicle Applications [The State-of-the-Art Approaches. <i>IEEE Access</i> , <b>2021</b> , 9, 41246-41260	3.5	8

49	Electric Vehicle Charge Stations Location Analysis and Determination Ankara (Turkey) Case Study. <i>Energies</i> , <b>2019</b> , 12, 3472	3.1	7
48	Techno-Economic Optimization of Grid-Connected Photovoltaic (PV) and Battery Systems Based on Maximum Demand Reduction (MDRed) Modelling in Malaysia. <i>Energies</i> , <b>2019</b> , 12, 3531	3.1	7
47	Effective Management System for Solar PV Using Real-Time Data with Hybrid Energy Storage System. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 1108	2.6	7
46	Agricultural wastes. <i>Waste Management Series</i> , <b>2004</b> , 4, 207-215		7
45	Triple-Mode Active-Passive Parallel Intermediate Links Converter With High Voltage Gain and Flexibility in Selection of Duty Cycles. <i>IEEE Access</i> , <b>2020</b> , 8, 134716-134727	3.5	7
44	Development of Stand-Alone Green Hybrid System for Rural Areas. <i>Sustainability</i> , <b>2020</b> , 12, 3808	3.6	6
43	On-Line near Infrared Monitoring of Ammonium and Dry Matter in Bioslurry for Robust Biogas Production: A Full-Scale Feasibility Study. <i>Journal of Near Infrared Spectroscopy</i> , <b>2012</b> , 20, 635-645	1.5	6
42	A New Three-Phase Multi-Level Asymmetrical Inverter With Optimum Hardware Components. <i>IEEE Access</i> , <b>2020</b> , 8, 212515-212528	3.5	6
41	. <i>IEEE Access</i> , <b>2021</b> , 9, 317-338	3.5	6
40	Systematic Approach for State-of-the-Art Architectures and System-on-Chip Selection for Heterogeneous IoT Applications. <i>IEEE Access</i> , <b>2021</b> , 9, 25594-25622	3.5	6
39	Process control in biogas plants <b>2013</b> , 228-247		5
38	Implementation of high-gain nonisolated DC-DC converter for PV-fed applications. <i>International Transactions on Electrical Energy Systems</i> , <b>2020</b> , 30, e12165	2.2	5
37	Determination of biogas process efficiency - a practice-oriented alternative to the biomethane potential test. <i>Bioresource Technology Reports</i> , <b>2019</b> , 7, 100201	4.1	4
36	Experimental Investigation of Power Signatures for Cavitation and Water Hammer in an Industrial Parallel Pumping System. <i>Energies</i> , <b>2019</b> , 12, 1351	3.1	4
35	Fault Investigation in Cascaded H-Bridge Multilevel Inverter through Fast Fourier Transform and Artificial Neural Network Approach. <i>Energies</i> , <b>2020</b> , 13, 1299	3.1	4
34	Quazi Z-Source Single Stage High Step-Up DC-DC Converter for Grid-connected PV Application <b>2019</b> ,		3
33	Biorefinery plant design, engineering and process optimisation <b>2014</b> , 89-111		3
32	Lignocellulosic Biomass Thermal Pre-treatment with Steam. <i>Green Energy and Technology</i> , <b>2013</b> , 59-75	0.6	3

31	Intelligent Hybrid Battery Management System for Electric Vehicle <b>2020</b> , 179-206		3
30	Low-Temperature Pretreatment of Lignocellulosic Biomass for Enhanced Biogas Production. <i>Chemical Engineering and Technology</i> , <b>2019</b> , 42, 2565-2573	2	3
29	Location-Based Optimized Service Selection for Data Management with Cloud Computing in Smart Grids. <i>Energies</i> , <b>2019</b> , 12, 4517	3.1	3
28	Meter Placement in Power System Network – Comprehensive Review, Analysis and Methodology. <i>Electronics (Switzerland)</i> , <b>2018</b> , 7, 329	2.6	3
27	Prosumer Energy Management For Optimal Utilization of Bid Fulfillment with EV Uncertainty Modeling. <i>IEEE Transactions on Industry Applications</i> , <b>2021</b> , 1-1	4.3	2
26	Design and Characteristic Investigation of Novel Dual-Stator V-Shaped Magnetic Pole Six-Phase Permanent Magnet Synchronous Generator for Wind Power Application. <i>Electric Power Components and Systems</i> , <b>2020</b> , 48, 1537-1550	1	2
25	Anaerobic Biodegradability of Digestates – Influence of and Correlations for Klason lignin. <i>Chemical Engineering and Technology</i> , <b>2020</b> , 43, 39-46	2	2
24	Modified Firefly-Based Maximum Power Point Tracking Algorithm for PV Systems Under Partial Shading Conditions <b>2020</b> , 143-163		2
23	Layout optimisation algorithms and reliability assessment of wind farm for microgrid integration: A comprehensive review. <i>IET Renewable Power Generation</i> , <b>2021</b> , 15, 2063-2084	2.9	2
22	L-L and L-2L Multilevel Boost Converter Topologies with Voltage Multiplier with L-L and L-2L Converter of XY Family <b>2018</b> ,		2
21	Utilization of waste from food and agriculture. <i>Waste Management Series</i> , <b>2004</b> , 4, 735-756		1
20	Evaluation of ancillary services in distribution grid using large-scale battery energy storage systems. <i>IET Renewable Power Generation</i> , <b>2020</b> , 14, 4216-4222	2.9	1
19	A Comprehensive Study on Various Topologies of Permanent Magnet Motor Drives for Electric Vehicles Application <b>2020</b> , 207-217		1
18	Energy Management of Hybrid Energy Storage System in PHEV With Various Driving Mode <b>2020</b> , 103-113		1
17	IoT-Based Battery Management System for Hybrid Electric Vehicle <b>2020</b> , 1-16		1
16	A Comprehensive Review on Energy Management in Micro-Grid System <b>2021</b> , 1-24		1
15	The potential of surplus grass production as co-substrate for anaerobic digestion: A case study in the Region of Southern Denmark. <i>Renewable Agriculture and Food Systems</i> , <b>2016</b> , 31, 330-349	1.8	0
14	Economic Analysis of HRES Systems with Energy Storage During Grid Interruptions and Curtailment in Tamil Nadu, India: A Hybrid RBFNOEHO Technique. <i>Energies</i> , <b>2019</b> , 12, 3047	3.1	0

- 13 A Review on Isolated DCDC Converters Used in Renewable Power Generation Applications **2020**, 233-240 ○
- 12 Optimization Techniques Used in Active Magnetic Bearing System for Electric Vehicles **2020**, 49-75 ○
- 11 Corrections to Design and Implementation of Seventeen Level Inverter With Reduced Components [IEEE Access, **2022**, 10, 40214-40215] 3.5 ○
- 10 Corrections to An Improved Harmonics Mitigation Scheme for a Modular Multilevel Converter [2019 147244-147255]. *IEEE Access*, **2020**, 8, 65351-65351 3.5
- 9 A New Approach for Flux Computation Using Intelligent Technique for Direct Flux Oriented Control of Asynchronous Motor **2020**, 219-232
- 8 Basics of Vector Control of Asynchronous Induction Motor and Introduction to Fuzzy Controller **2020**, 241-258
- 7 Reliability Approach for the Power Semiconductor Devices in EV Applications **2020**, 115-124
- 6 Modeling, Simulation and Analysis of Drive Cycles for PMSM-Based HEV With Optimal Battery Type **2020**, 125-142
- 5 Induction Motor Control Schemes for Hybrid Electric Vehicles/Electric Vehicles **2020**, 165-178
- 4 A Noble Control Approach for Brushless Direct Current Motor Drive Using Artificial Intelligence for Optimum Operation of the Electric Vehicle **2020**, 17-47
- 3 Small-Signal Modelling Analysis of Three-Phase Power Converters for EV Applications **2020**, 77-101
- 2 A low power and soft error resilience guard-gated Quatro-based flip-flop in 45 nm CMOS technology. *IET Circuits, Devices and Systems*, **2021**, 15, 571-580 1.1
- 1 An Internet of Things-Inspired Dual-Level Boost Converter for BLDC-Driven Photovoltaic Water Pumping Applications. *Energy Systems in Electrical Engineering*, **2022**, 371-381 0.3