Jens Bo Holm-Nielsen

List of Publications by Year
in descending order

95 papers	5,097 citations	109321 35 h-index	91884 69 g-index
113 all docs	113 docs citations	113 times ranked	5488 citing authors

#	Article	IF	Citations
1	An Internet of Things-Inspired Dual-Level Boost Converter for BLDC-Driven Photovoltaic Water Pumping Applications. Engergy Systems in Electrical Engineering, 2022, , 371-381.	0.7	1
2	Prosumer Energy Management for Optimal Utilization of Bid Fulfillment With EV Uncertainty Modeling. IEEE Transactions on Industry Applications, 2022, 58, 599-611.	4.9	9
3	Corrections to â€œDesign and Implementation of Seventeen Level Inverter With Reduced Componentsâ€. IEEE Access, 2022, 10, 40214-40215.	4.2	2
4	Guest Editorial: Fast, Superfast, and Ultra-Superfast Intelligent and Smart Charging Solutions for Electric Vehicles. IEEE Transactions on Industry Applications, 2022, 58, 5518-5519.	4.9	2
5	Improved Perturb and Observation Maximum Power Point Tracking Technique for Solar Photovoltaic Power Generation Systems. IEEE Systems Journal, 2021, 15, 3024-3035.	4.6	78
6	Design and Implementation of Seventeen Level Inverter With Reduced Components. IEEE Access, 2021, 9, 16746-16760.	4.2	76
7	Design and Implementation of a Single-Phase 15-Level Inverter With Reduced Components for Solar PV Applications. IEEE Access, 2021, 9, 581-594.	4.2	29
8	Design and Implementation of Multilevel Inverters for Electric Vehicles. IEEE Access, 2021, 9, 317-338.	4.2	34
9	Systematic Approach for State-of-the-Art Architectures and System-on-Chip Selection for Heterogeneous IoT Applications. IEEE Access, 2021, 9, 25594-25622.	4.2	15
10	Piezoelectric energy harvester converting wind aerodynamic energy into electrical energy for microelectronic application. IET Renewable Power Generation, 2021, 15, 1968-1975.	3.1	59
11	A low power and soft error resilience guardâ€gated Quartroâ€based flipâ€flop in 45 nm CMOS technology. IET Circuits, Devices and Systems, 2021, 15, 571-580.	1.4	0
12	Layout optimisation algorithms and reliability assessment of wind farm for microgrid integration: A comprehensive review. IET Renewable Power Generation, 2021, 15, 2063-2084.	3.1	9
13	A Novel Asymmetrical 21-Level Inverter for Solar PV Energy System With Reduced Switch Count. IEEE Access, 2021, 9, 11761-11775.	4.2	46
14	Deep Learning for Fault Diagnostics in Bearings, Insulators, PV Panels, Power Lines, and Electric Vehicle Applicationsâ€”The State-of-the-Art Approaches. IEEE Access, 2021, 9, 41246-41260.	4.2	26
15	Design and Implementation of 31-Level Asymmetrical Inverter With Reduced Components. IEEE Access, 2021, 9, 22788-22803.	4.2	34
16	Implementation of highâ€gain nonisolated DCâ€DC converter for PVâ€fed applications. International Transactions on Electrical Energy Systems, 2020, 30, e12165.	1.9	9
17	An improved hybrid PVâ€wind power system with MPPT for water pumping applications. International Transactions on Electrical Energy Systems, 2020, 30, e12210.	1.9	25
18	Anaerobic Biodegradability of Digestates â€“ Influence of and Correlations for Klason lignin. Chemical Engineering and Technology, 2020, 43, 39-46.	1.5	3

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19	An Experimental Estimation of Hybrid ANFISâ€“PSO-Based MPPT for PV Grid Integration Under Fluctuating Sun Irradiance. IEEE Systems Journal, 2020, 14, 1218-1229.	4.6	230
20	A Hybrid Photovoltaic-Fuel Cell-Based Single-Stage Grid Integration With Lyapunov Control Scheme. IEEE Systems Journal, 2020, 14, 3334-3342.	4.6	71
21	Design and Implementation of Multilevel Inverters for Fuel Cell Energy Conversion System. IEEE Access, 2020, 8, 183690-183707.	4.2	53
22	Triple-Mode Active-Passive Parallel Intermediate Links Converter With High Voltage Gain and Flexibility in Selection of Duty Cycles. IEEE Access, 2020, 8, 134716-134727.	4.2	11
23	Chain of X-Y Power Novel DC-DC Converters with Synchronous Grounded Switching for High Step-Up Renewable Power Applications. , 2020, , .		3
24	Theoretical and Performance Analysis of PWM Control-Based Variable Switching Frequency for Torque Ripple Reduction in SPMSM Drive Systems. , 2020, , .		0
25	Internet of things augmented a novel PSOâ€employed modified zeta converterâ€based photovoltaic maximum power tracking system: hardware realisation. IET Power Electronics, 2020, 13, 2775-2781.	2.1	54
26	Comprehensive Review on Detection and Classification of Power Quality Disturbances in Utility Grid With Renewable Energy Penetration. IEEE Access, 2020, 8, 146807-146830.	4.2	112
27	A New Three-Phase Multi-Level Asymmetrical Inverter With Optimum Hardware Components. IEEE Access, 2020, 8, 212515-212528.	4.2	17
28	Reliability enhancement of electrical power system including impacts of renewable energy sources: a comprehensive review. IET Generation, Transmission and Distribution, 2020, 14, 1799-1815.	2.5	73
29	Inertia emulation control technique based frequency control of gridâ€connected singleâ€phase rooftop photovoltaic system with battery and supercapacitor. IET Renewable Power Generation, 2020, 14, 1156-1163.	3.1	27
30	Non-Isolated High-Gain Triple Port DCâ€“DC Buck-Boost Converter With Positive Output Voltage for Photovoltaic Applications. IEEE Access, 2020, 8, 113649-113666.	4.2	97
31	Comprehensive Review of Distributed FACTS Control Algorithms for Power Quality Enhancement in Utility Grid With Renewable Energy Penetration. IEEE Access, 2020, 8, 107614-107634.	4.2	93
32	Development of Stand-Alone Green Hybrid System for Rural Areas. Sustainability, 2020, 12, 3808.	3.2	9
33	Computational Tools for Modeling and Analysis of Power Generation and Transmission Systems of the Smart Grid. IEEE Systems Journal, 2020, 14, 3641-3652.	4.6	15
34	Effective Management System for Solar PV Using Real-Time Data with Hybrid Energy Storage System. Applied Sciences (Switzerland), 2020, 10, 1108.	2.5	16
35	A Hybrid PV-Battery System for ON-Grid and OFF-Grid Applicationsâ€”Controller-In-Loop Simulation Validation. Energies, 2020, 13, 755.	3.1	31
36	Corrections to â€œAn Improved Harmonics Mitigation Scheme for a Modular Multilevel Converterâ€• [2019 147244-147255]. IEEE Access, 2020, 8, 65351-65351.	4.2	0

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37	Identification of Water Hammering for Centrifugal Pump Drive Systems. Applied Sciences (Switzerland), 2020, 10, 2683.	2.5	11
38	Fault Investigation in Cascaded H-Bridge Multilevel Inverter through Fast Fourier Transform and Artificial Neural Network Approach. Energies, 2020, 13, 1299.	3.1	14
39	A Comprehensive Review on Renewable Energy Development, Challenges, and Policies of Leading Indian States With an International Perspective. IEEE Access, 2020, 8, 74432-74457.	4.2	328
40	Energy management strategy for solidâ€state transformerâ€based solar charging station for electric vehicles in smart grids. IET Renewable Power Generation, 2020, 14, 3843-3852.	3.1	47
41	Design and Characteristic Investigation of Novel Dual-Stator V-Shaped Magnetic Pole Six-Phase Permanent Magnet Synchronous Generator for Wind Power Application. Electric Power Components and Systems, 2020, 48, 1537-1550.	1.8	9
42	Evaluation of ancillary services in distribution grid using largeâ€scale battery energy storage systems. IET Renewable Power Generation, 2020, 14, 4216-4222.	3.1	6
43	Economic Analysis of HRES Systems with Energy Storage During Grid Interruptions and Curtailment in Tamil Nadu, India: A Hybrid RBFNOEHO Technique. Energies, 2019, 12, 3047.	3.1	4
44	A New Structure of High Voltage Gain SEPIC Converter for Renewable Energy Applications. IEEE Access, 2019, 7, 89857-89868.	4.2	99
45	A Hybrid Photovoltaic-Fuel Cell for Grid Integration With Jaya-Based Maximum Power Point Tracking: Experimental Performance Evaluation. IEEE Access, 2019, 7, 82978-82990.	4.2	117
46	A Three-Phase Transformerless T-Type- NPC-MLI for Grid Connected PV Systems with Common-Mode Leakage Current Mitigation. Energies, 2019, 12, 2434.	3.1	29
47	An Adaptive Neuro-Fuzzy Inference System Employed Cuk Converter for PV Applications. , 2019, , .		2
48	An AN-GA Controlled SEPIC Converter for Photovoltaic Grid Integration. , 2019, , .		1
49	Internet of Things Applications as Energy Internet in Smart Grids and Smart Environments. Electronics (Switzerland), 2019, 8, 972.	3.1	110
50	Double Stage Double Output DCâ€“DC Converters for High Voltage Loads in Fuel Cell Vehicles. Energies, 2019, 12, 3681.	3.1	16
51	XL Converters- New Series of High Gain DC-DC Converters for Renewable Energy Conversion. , 2019, , .		5
52	Quazi Z-Source Single Stage High Step-Up DC-DC Converter for Grid-connected PV Application. , 2019, , .		3
53	Electric Vehicle Charge Stations Location Analysis and Determinationâ€”Ankara (Turkey) Case Study. Energies, 2019, 12, 3472.	3.1	10
54	Techno-Economic Optimization of Grid-Connected Photovoltaic (PV) and Battery Systems Based on Maximum Demand Reduction (MDRed) Modelling in Malaysia. Energies, 2019, 12, 3531.	3.1	13

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55	Critical Review of PV Grid-Tied Inverters. Energies, 2019, 12, 1921.	3.1	39
56	Determination of biogas process efficiency - a practice-oriented alternative to the biomethane potential test. Bioresource Technology Reports, 2019, 7, 100201.	2.7	4
57	Large Scale Renewable Energy Integration: Issues and Solutions. Energies, 2019, 12, 1996.	3.1	49
58	Experimental Investigation of Power Signatures for Cavitation and Water Hammer in an Industrial Parallel Pumping System. Energies, 2019, 12, 1351.	3.1	11
59	Photovoltaic Integrated Hybrid Microgrid Structured Electric Vehicle Charging Station and Its Energy Management Approach. Energies, 2019, 12, 168.	3.1	84
60	A New Multilevel Member of Modified CUK Converter Family for Renewable Energy Applications. , 2019, , .		5
61	Lowâ€Temperature Pretreatment of Lignocellulosic Biomass for Enhanced Biogas Production. Chemical Engineering and Technology, 2019, 42, 2565-2573.	1.5	3
62	Testing of Local Control Cabinet In Gas Insulated Switchgear Using Design of Simulation Kit - Revista. , 2019, , .		0
63	Location-Based Optimized Service Selection for Data Management with Cloud Computing in Smart Grids. Energies, 2019, 12, 4517.	3.1	6
64	Future European biogas: Animal manure, straw and grass potentials for a sustainable European biogas production. Biomass and Bioenergy, 2018, 111, 154-164.	5.7	160
65	A combination anaerobic digestion scheme for biogas production from dairy effluentâ€"CSTR and ABR, and biogas upgrading. Biomass and Bioenergy, 2018, 111, 241-247.	5.7	36
66	L-L and L-2L Multilevel Boost Converter Topologies with Voltage Multiplier with L-L and L-2L Converter of XY Familiy. , 2018, , .		5
67	Meter Placement in Power System Networkâ€"A Comprehensive Review, Analysis and Methodology. Electronics (Switzerland), 2018, 7, 329.	3.1	4
68	A Hybrid Moth-Flame Fuzzy Logic Controller Based Integrated Cuk Converter Fed Brushless DC Motor for Power Factor Correction. Electronics (Switzerland), 2018, 7, 288.	3.1	44
69	The potential of surplus grass production as co-substrate for anaerobic digestion: A case study in the Region of Southern Denmark. Renewable Agriculture and Food Systems, 2016, 31, 330-349.	1.8	1
70	Influence of trace substances on methanation catalysts used in dynamic biogas upgrading. Bioresource Technology, 2015, 178, 319-322.	9.6	13
71	The energy balance of utilising meadow grass in Danish biogas production. Resources, Conservation and Recycling, 2015, 104, 265-275.	10.8	14
72	Hydrogen production using an anaerobic baffled reactor â€“ Mass balances for pathway analysis and gas composition profiles. International Journal of Hydrogen Energy, 2015, 40, 12154-12161.	7.1	12

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73	Dynamic biogas upgrading based on the Sabatier process: Thermodynamic and dynamic process simulation. Bioresource Technology, 2015, 178, 323-329.	9.6	100
74	Utilization of surplus electricity from wind power for dynamic biogas upgrading: Northern Germany case study. Biomass and Bioenergy, 2014, 66, 126-132.	5.7	87
75	Bioenergy production from roadside grass: A case study of the feasibility of using roadside grass for biogas production in Denmark. Resources, Conservation and Recycling, 2014, 93, 124-133.	10.8	42
76	Biorefinery plant design, engineering and process optimisation. , 2014, , 89-111.		4
77	Hydrothermal liquefaction of Spirulina and Nannochloropsis salina under subcritical and supercritical water conditions. Bioresource Technology, 2013, 131, 413-419.	9.6	200
78	Influence of different pre-treatment routes on the anaerobic digestion of a filamentous algae. Renewable Energy, 2013, 50, 476-480.	8.9	130
79	Conceptual design of an integrated hydrothermal liquefaction and biogas plant for sustainable bioenergy production. Bioresource Technology, 2013, 129, 402-410.	9.6	52
80	Lignocellulosic Biomassâ€"Thermal Pre-treatment with Steam. Green Energy and Technology, 2013, , 59-75.	0.6	3
81	Process control in biogas plants. , 2013, , 228-247.		6
82	On-Line near Infrared Monitoring of Ammonium and Dry Matter in Bioslurry for Robust Biogas Production: A Full-Scale Feasibility Study. Journal of Near Infrared Spectroscopy, 2012, 20, 635-645.	1.5	6
83	Acoustic chemometric prediction of total solids in bioslurry: A full-scale feasibility study for on-line biogas process monitoring. Chemometrics and Intelligent Laboratory Systems, 2012, 110, 135-143.	3.5	9
84	Monitoring of biogas test plantsâ€"a process analytical technology approach. Journal of Chemometrics, 2011, 25, 357-365.	1.3	11
85	Monitoring of anaerobic digestion processes: A review perspective. Renewable and Sustainable Energy Reviews, 2011, 15, 3141-3155.	16.4	218
86	Near infrared and acoustic chemometrics monitoring of volatile fatty acids and dry matter during co-digestion of manure and maize silage. Bioresource Technology, 2009, 100, 1711-1719.	9.6	48
87	The future of anaerobic digestion and biogas utilization. Bioresource Technology, 2009, 100, 5478-5484.	9.6	1,182
88	Pretreatment of Whole-Crop Harvested, Ensiled Maize for Ethanol Production. Applied Biochemistry and Biotechnology, 2008, 148, 23-33.	2.9	28
89	On-line near infrared monitoring of glycerol-boosted anaerobic digestion processes: Evaluation of process analytical technologies. Biotechnology and Bioengineering, 2008, 99, 302-313.	3.3	83
90	Ethanol production from maize silage as lignocellulosic biomass in anaerobically digested and wet-oxidized manure. Bioresource Technology, 2008, 99, 5327-5334.	9.6	42

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91	Transflexive Embedded near Infrared Monitoring for Key Process Intermediates in Anaerobic Digestion/Biogas Production. Journal of Near Infrared Spectroscopy, 2007, 15, 123-135.	1.5	36
92	Representative process sampling â€" in practice: Variographic analysis and estimation of total sampling errors (TSE). Chemometrics and Intelligent Laboratory Systems, 2007, 88, 41-59.	3.5	56
93	Representative sampling for process analytical characterization of heterogeneous bioslurry systemsâ€"a reference study of sampling issues in PAT. Chemometrics and Intelligent Laboratory Systems, 2006, 83, 114-126.	3.5	27
94	Utilization of waste from food and agriculture. Waste Management Series, 2004, 4, 735-756.	0.0	3
95	Agricultural wastes. Waste Management Series, 2004, 4, 207-215.	0.0	9