

Jens Bo Holm-Nielsen

List of Publications by Year in descending order

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Version: 2024-02-01

95
papers

5,097
citations

109321

35
h-index

91884

69
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113
all docs

113
docs citations

113
times ranked

5488
citing authors

#	ARTICLE	IF	CITATIONS
1	The future of anaerobic digestion and biogas utilization. <i>Bioresource Technology</i> , 2009, 100, 5478-5484.	9.6	1,182
2	A Comprehensive Review on Renewable Energy Development, Challenges, and Policies of Leading Indian States With an International Perspective. <i>IEEE Access</i> , 2020, 8, 74432-74457.	4.2	328
3	An Experimental Estimation of Hybrid ANFIS-PSO-Based MPPT for PV Grid Integration Under Fluctuating Sun Irradiance. <i>IEEE Systems Journal</i> , 2020, 14, 1218-1229.	4.6	230
4	Monitoring of anaerobic digestion processes: A review perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 3141-3155.	16.4	218
5	Hydrothermal liquefaction of <i>Spirulina</i> and <i>Nannochloropsis salina</i> under subcritical and supercritical water conditions. <i>Bioresource Technology</i> , 2013, 131, 413-419.	9.6	200
6	Future European biogas: Animal manure, straw and grass potentials for a sustainable European biogas production. <i>Biomass and Bioenergy</i> , 2018, 111, 154-164.	5.7	160
7	Influence of different pre-treatment routes on the anaerobic digestion of a filamentous algae. <i>Renewable Energy</i> , 2013, 50, 476-480.	8.9	130
8	A Hybrid Photovoltaic-Fuel Cell for Grid Integration With Jaya-Based Maximum Power Point Tracking: Experimental Performance Evaluation. <i>IEEE Access</i> , 2019, 7, 82978-82990.	4.2	117
9	Comprehensive Review on Detection and Classification of Power Quality Disturbances in Utility Grid With Renewable Energy Penetration. <i>IEEE Access</i> , 2020, 8, 146807-146830.	4.2	112
10	Internet of Things Applications as Energy Internet in Smart Grids and Smart Environments. <i>Electronics (Switzerland)</i> , 2019, 8, 972.	3.1	110
11	Dynamic biogas upgrading based on the Sabatier process: Thermodynamic and dynamic process simulation. <i>Bioresource Technology</i> , 2015, 178, 323-329.	9.6	100
12	A New Structure of High Voltage Gain SEPIC Converter for Renewable Energy Applications. <i>IEEE Access</i> , 2019, 7, 89857-89868.	4.2	99
13	Non-Isolated High-Gain Triple Port DC-DC Buck-Boost Converter With Positive Output Voltage for Photovoltaic Applications. <i>IEEE Access</i> , 2020, 8, 113649-113666.	4.2	97
14	Comprehensive Review of Distributed FACTS Control Algorithms for Power Quality Enhancement in Utility Grid With Renewable Energy Penetration. <i>IEEE Access</i> , 2020, 8, 107614-107634.	4.2	93
15	Utilization of surplus electricity from wind power for dynamic biogas upgrading: Northern Germany case study. <i>Biomass and Bioenergy</i> , 2014, 66, 126-132.	5.7	87
16	Photovoltaic Integrated Hybrid Microgrid Structured Electric Vehicle Charging Station and Its Energy Management Approach. <i>Energies</i> , 2019, 12, 168.	3.1	84
17	On-line near infrared monitoring of glycerol-boosted anaerobic digestion processes: Evaluation of process analytical technologies. <i>Biotechnology and Bioengineering</i> , 2008, 99, 302-313.	3.3	83
18	Improved Perturb and Observation Maximum Power Point Tracking Technique for Solar Photovoltaic Power Generation Systems. <i>IEEE Systems Journal</i> , 2021, 15, 3024-3035.	4.6	78

#	ARTICLE	IF	CITATIONS
19	Design and Implementation of Seventeen Level Inverter With Reduced Components. IEEE Access, 2021, 9, 16746-16760.	4.2	76
20	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
21	A Hybrid Photovoltaic-Fuel Cell-Based Single-Stage Grid Integration With Lyapunov Control Scheme. IEEE Systems Journal, 2020, 14, 3334-3342.	4.6	71
22	Piezoelectric energy harvester converting wind aerodynamic energy into electrical energy for microelectronic application. IET Renewable Power Generation, 2021, 15, 1968-1975.	3.1	59
23	Representative process sampling " in practice: Variographic analysis and estimation of total sampling errors (TSE). Chemometrics and Intelligent Laboratory Systems, 2007, 88, 41-59.	3.5	56
24	Internet of things augmented a novel PSO-employed modified zeta converter-based photovoltaic maximum power tracking system: hardware realisation. IET Power Electronics, 2020, 13, 2775-2781.	2.1	54
25	Design and Implementation of Multilevel Inverters for Fuel Cell Energy Conversion System. IEEE Access, 2020, 8, 183690-183707.	4.2	53
26	Conceptual design of an integrated hydrothermal liquefaction and biogas plant for sustainable bioenergy production. Bioresource Technology, 2013, 129, 402-410.	9.6	52
27	Large Scale Renewable Energy Integration: Issues and Solutions. Energies, 2019, 12, 1996.	3.1	49
28	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
29	Energy management strategy for solid-state transformer-based solar charging station for electric vehicles in smart grids. IET Renewable Power Generation, 2020, 14, 3843-3852.	3.1	47
30	A Novel Asymmetrical 21-Level Inverter for Solar PV Energy System With Reduced Switch Count. IEEE Access, 2021, 9, 11761-11775.	4.2	46
31	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
32	Ethanol production from maize silage as lignocellulosic biomass in anaerobically digested and wet-oxidized manure. Bioresource Technology, 2008, 99, 5327-5334.	9.6	42
33	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
34	Critical Review of PV Grid-Tied Inverters. Energies, 2019, 12, 1921.	3.1	39
35	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
36	A combination anaerobic digestion scheme for biogas production from dairy effluent "CSTR and ABR, and biogas upgrading. Biomass and Bioenergy, 2018, 111, 241-247.	5.7	36

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37	Design and Implementation of Multilevel Inverters for Electric Vehicles. IEEE Access, 2021, 9, 317-338.	4.2	34
38	Design and Implementation of 31-Level Asymmetrical Inverter With Reduced Components. IEEE Access, 2021, 9, 22788-22803.	4.2	34
39	A Hybrid PV-Battery System for ON-Grid and OFF-Grid Applicationsâ€”Controller-In-Loop Simulation Validation. Energies, 2020, 13, 755.	3.1	31
40	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
41	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
42	Pretreatment of Whole-Crop Harvested, Ensiled Maize for Ethanol Production. Applied Biochemistry and Biotechnology, 2008, 148, 23-33.	2.9	28
43	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
44	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
45	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
46	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
47	A New Three-Phase Multi-Level Asymmetrical Inverter With Optimum Hardware Components. IEEE Access, 2020, 8, 212515-212528.	4.2	17
48	Double Stage Double Output DCâ€”DC Converters for High Voltage Loads in Fuel Cell Vehicles. Energies, 2019, 12, 3681.	3.1	16
49	Effective Management System for Solar PV Using Real-Time Data with Hybrid Energy Storage System. Applied Sciences (Switzerland), 2020, 10, 1108.	2.5	16
50	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
51	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
52	The energy balance of utilising meadow grass in Danish biogas production. Resources, Conservation and Recycling, 2015, 104, 265-275.	10.8	14
53	Fault Investigation in Cascaded H-Bridge Multilevel Inverter through Fast Fourier Transform and Artificial Neural Network Approach. Energies, 2020, 13, 1299.	3.1	14
54	Influence of trace substances on methanation catalysts used in dynamic biogas upgrading. Bioresource Technology, 2015, 178, 319-322.	9.6	13

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55	Techno-Economic Optimization of Grid-Connected Photovoltaic (PV) and Battery Systems Based on Maximum Demand Reduction (MDRed) Modelling in Malaysia. <i>Energies</i> , 2019, 12, 3531.	3.1	13
56	Hydrogen production using an anaerobic baffled reactor – Mass balances for pathway analysis and gas composition profiles. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 12154-12161.	7.1	12
57	Monitoring of biogas test plants – a process analytical technology approach. <i>Journal of Chemometrics</i> , 2011, 25, 357-365.	1.3	11
58	Experimental Investigation of Power Signatures for Cavitation and Water Hammer in an Industrial Parallel Pumping System. <i>Energies</i> , 2019, 12, 1351.	3.1	11
59	Triple-Mode Active-Passive Parallel Intermediate Links Converter With High Voltage Gain and Flexibility in Selection of Duty Cycles. <i>IEEE Access</i> , 2020, 8, 134716-134727.	4.2	11
60	Identification of Water Hammering for Centrifugal Pump Drive Systems. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2683.	2.5	11
61	Electric Vehicle Charge Stations Location Analysis and Determination – Ankara (Turkey) Case Study. <i>Energies</i> , 2019, 12, 3472.	3.1	10
62	Agricultural wastes. <i>Waste Management Series</i> , 2004, 4, 207-215.	0.0	9
63	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> , 2012, 110, 135-143.	3.5	9
64	Implementation of high-gain nonisolated DC-DC converter for PV-fed applications. <i>International Transactions on Electrical Energy Systems</i> , 2020, 30, e12165.	1.9	9
65	Development of Stand-Alone Green Hybrid System for Rural Areas. <i>Sustainability</i> , 2020, 12, 3808.	3.2	9
66	Layout optimisation algorithms and reliability assessment of wind farm for microgrid integration: A comprehensive review. <i>IET Renewable Power Generation</i> , 2021, 15, 2063-2084.	3.1	9
67	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> , 2020, 48, 1537-1550.	1.8	9
68	Prosumer Energy Management for Optimal Utilization of Bid Fulfillment With EV Uncertainty Modeling. <i>IEEE Transactions on Industry Applications</i> , 2022, 58, 599-611.	4.9	9
69	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> , 2012, 20, 635-645.	1.5	6
70	Process control in biogas plants. , 2013, , 228-247.		6
71	Location-Based Optimized Service Selection for Data Management with Cloud Computing in Smart Grids. <i>Energies</i> , 2019, 12, 4517.	3.1	6
72	Evaluation of ancillary services in distribution grid using large-scale battery energy storage systems. <i>IET Renewable Power Generation</i> , 2020, 14, 4216-4222.	3.1	6

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73	L-L and L-2L Multilevel Boost Converter Topologies with Voltage Multiplier with L-L and L-2L Converter of XY Family. , 2018, , .		5
74	XL Converters- New Series of High Gain DC-DC Converters for Renewable Energy Conversion. , 2019, , .		5
75	A New Multilevel Member of Modified CUK Converter Family for Renewable Energy Applications. , 2019, , .		5
76	Biorefinery plant design, engineering and process optimisation. , 2014, , 89-111.		4
77	Meter Placement in Power System Networkâ€”A Comprehensive Review, Analysis and Methodology. Electronics (Switzerland), 2018, 7, 329.	3.1	4
78	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
79	Determination of biogas process efficiency - a practice-oriented alternative to the biomethane potential test. Bioresource Technology Reports, 2019, 7, 100201.	2.7	4
80	Utilization of waste from food and agriculture. Waste Management Series, 2004, 4, 735-756.	0.0	3
81	Lignocellulosic Biomassâ€”Thermal Pre-treatment with Steam. Green Energy and Technology, 2013, , 59-75.	0.6	3
82	Quazi Z-Source Single Stage High Step-Up DC-DC Converter for Grid-connected PV Application. , 2019, , .		3
83	Lowâ€”temperature Pretreatment of Lignocellulosic Biomass for Enhanced Biogas Production. Chemical Engineering and Technology, 2019, 42, 2565-2573.	1.5	3
84	Anaerobic Biodegradability of Digestates â€” Influence of and Correlations for Klason lignin. Chemical Engineering and Technology, 2020, 43, 39-46.	1.5	3
85	Chain of X-Y Power Novel DC-DC Converters with Synchronous Grounded Switching for High Step-Up Renewable Power Applications. , 2020, , .		3
86	An Adaptive Neuro-Fuzzy Inference System Employed Cuk Converter for PV Applications. , 2019, , .		2
87	Corrections to â€œDesign and Implementation of Seventeen Level Inverter With Reduced Componentsâ€•. IEEE Access, 2022, 10, 40214-40215.	4.2	2
88	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
89	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
90	An AN-GA Controlled SEPIC Converter for Photovoltaic Grid Integration. , 2019, , .		1

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91	An Internet of Things-Inspired Dual-Level Boost Converter for BLDC-Driven Photovoltaic Water Pumping Applications. Energy Systems in Electrical Engineering, 2022, , 371-381.	0.7	1
92	Testing of Local Control Cabinet In Gas Insulated Switchgear Using Design of Simulation Kit - Revista. , 2019, , .		0
93	Theoretical and Performance Analysis of PWM Control-Based Variable Switching Frequency for Torque Ripple Reduction in SPMSM Drive Systems. , 2020, , .		0
94	Corrections to "An Improved Harmonics Mitigation Scheme for a Modular Multilevel Converter" [2019 147244-147255]. IEEE Access, 2020, 8, 65351-65351.	4.2	0
95	A low power and soft error resilience guardâ€gated Quatroâ€based flipâ€flop in 45 nm CMOS technology. IET Circuits, Devices and Systems, 2021, 15, 571-580.	1.4	0