

Tore Undeland

List of Publications by Year in descending order

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39
papers

1,531
citations

759233

12
h-index

1199594

12
g-index

39
all docs

39
docs citations

39
times ranked

1526
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimized Design of Multi-MHz Frequency Isolated Auxiliary Power Supply for Gate Drivers in Medium-Voltage Converters. IEEE Transactions on Power Electronics, 2020, 35, 9494-9509.	7.9	32
2	Modelling and quantification of power losses due to dynamic on-state resistance of GaN E-mode HEMT. , 2017, , .		22
3	Design of dual purpose no voltage combined windings for bearingless motors. , 2016, , .		3
4	Low frequency operation of modular multilevel matrix converter using optimization-oriented predictive control scheme. , 2016, , .		6
5	Dual-Purpose No-Voltage Winding Design for the Bearingless AC Homopolar and Consequent Pole Motors. IEEE Transactions on Industry Applications, 2015, 51, 2884-2895.	4.9	43
6	Medium-Voltage Drive for Induction Machine With Multilevel Dodecagonal Voltage Space Vectors With Symmetric Triangles. IEEE Transactions on Industrial Electronics, 2015, 62, 79-87.	7.9	44
7	Dual purpose no voltage winding design for the bearingless ac homopolar and consequent pole motors. , 2014, , .		1
8	An open-end winding IM drive with multilevel 12-sided polygonal vectors with symmetric triangles. , 2014, , .		6
9	Multilevel converters for a 10 MW, 100 kV transformer-less offshore wind generator system. , 2013, , .		17
10	Integration of Offshore Wind Farm Using a Hybrid HVDC Transmission Composed by the PWM Current-Source Converter and Line-Commutated Converter. IEEE Transactions on Energy Conversion, 2013, 28, 125-134.	5.2	87
11	Suspension force model for bearingless AC homopolar machines designed for flywheel energy storage. , 2013, , .		32
12	Design and measurement of a passive thrust magnetic bearing for a bearingless motor. , 2013, , .		0
13	Voltage-Sensor-Less Synchronization to Unbalanced Grids by Frequency-Adaptive Virtual Flux Estimation. IEEE Transactions on Industrial Electronics, 2012, 59, 2910-2923.	7.9	99
14	Analysis of the bearingless AC homopolar motor. , 2012, , .		18
15	Virtual-Flux-Based Voltage-Sensor-Less Power Control for Unbalanced Grid Conditions. IEEE Transactions on Power Electronics, 2012, 27, 4071-4087.	7.9	101
16	Hybrid HVDC connection of large offshore wind farms to the AC grid. , 2012, , .		12
17	Offshore Wind Farm Grid Integration by VSC Technology With LCC-Based HVDC Transmission. IEEE Transactions on Sustainable Energy, 2012, 3, 899-907.	8.8	121
18	Main grid frequency support strategy for VSC-HVDC connected wind farms with variable speed wind turbines. , 2011, , .		52

#	ARTICLE	IF	CITATIONS
19	Synchronous Reference Frame Hysteresis Current Control for Grid Converter Applications. IEEE Transactions on Industry Applications, 2011, 47, 2183-2194.	4.9	75
20	Flexible reference frame orientation of Virtual Flux-based Dual Frame Current controllers for operation in weak grids. , 2011, , .		8
21	Faults mitigation control design for grid integration of offshore wind farms and oil & gas installations using VSC HVDC. , 2010, , .		6
22	Grid integration of large offshore wind energy and oil & gas installations using LCC HVDC transmission system. , 2010, , .		10
23	STATCOM-Based Indirect Torque Control of Induction Machines During Voltage Recovery After Grid Faults. IEEE Transactions on Power Electronics, 2010, 25, 1240-1250.	7.9	62
24	Extending the Life of Gear Box in Wind Generators by Smoothing Transient Torque With STATCOM. IEEE Transactions on Industrial Electronics, 2010, 57, 476-484.	7.9	79
25	Synchronous reference frame hysteresis current control for grid converter applications. , 2010, , .		0
26	Frequency-adaptive Virtual Flux estimation for grid synchronization under unbalanced conditions. , 2010, , .		14
27	Impact of Virtual Flux reference frame orientation on voltage source inverters in weak grids. , 2010, , .		9
28	Power Electronics Design Laboratory Exercise for Final-Year M.Sc. Students. IEEE Transactions on Education, 2009, 52, 524-531.	2.4	30
29	Centralized power control strategy of offshore wind farm with permanent magnetic generators. , 2009, , .		0
30	State Space Averaging Modeling and Analysis of Disturbance Injection Method of MPPT for Small Wind Turbine Generating Systems. , 2009, , .		6
31	Low Voltage Ride Through of Wind Farms With Cage Generators: STATCOM Versus SVC. IEEE Transactions on Power Electronics, 2008, 23, 1104-1117.	7.9	362
32	Wind power integration in isolated grids enabled by variable speed pumped storage hydropower plant. , 2008, , .		21
33	Constant power loads in AC distribution systems: An investigation of stability. , 2008, , .		26
34	Tuning of control loops for grid connected voltage source converters. , 2008, , .		35
35	Torque transient alleviation in fixed speed wind generators by Indirect Torque Control with STATCOM. , 2008, , .		12
36	Power electronics as grid interface for actively controlled wave energy converters. , 2007, , .		35

#	ARTICLE	IF	CITATIONS
37	Improved grid interface of induction generators for renewable energy by use of STATCOM. , 2007, , .		27
38	Simple Control Algorithm to Balance the DC-Link Voltage in Multilevel Four-Leg Four-Wire Diode Clamped Converters. , 2006, , .		3
39	Wind farms with increased transient stability margin provided by a STATCOM. , 2006, , .		15