Yeongsu Bak

List of Publications by Year
in descending order

35 papers	504 citations	933447 10 h-index	713466 21 g-index
35 all docs	35 docs citations	35 times ranked	477 citing authors

#	Article	IF	Citations
1	Dynamic Characteristic Improvement of Phase-Shift Full-Bridge Center-Tapped Converters Using a Model Predictive Control. IEEE Transactions on Industrial Electronics, 2022, 69, 1488-1497.	7.9	8
2	Six-step operation strategy for direct self-control method of interior permanent magnet synchronous motors based on torque angle. Journal of Power Electronics, 2021, 21, 1352-1364.	1.5	3
3	Control Methods for Performance Improvement of an Integrated On-Board Battery Charger in Hybrid Electric Vehicles. Electronics (Switzerland), 2021, 10, 2506.	3.1	4
4	An Improved Rotating Restart Method for a Sensorless Permanent Magnet Synchronous Motor Drive System Using Repetitive Zero Voltage Vectors. IEEE Transactions on Industrial Electronics, 2020, 67, 3496-3504.	7.9	30
5	Improved Finite Set-Predictive Torque Control of PMSM Fed by Indirect Matrix Converter with Discrete Space Vector Modulation. Electronics (Switzerland), 2020, 9, 2133.	3.1	5
6	Method of estimating initial rotor position for IPMSMs using subdivided voltage vectors based on inductance variation. Journal of Power Electronics, 2020, 20, 1195-1205.	1.5	4
7	Predictive current control for indirect matrix converter with reduced current ripple. Journal of Power Electronics, 2020, 20, 443-454.	1.5	6
8	Development of PCS to utilize differential pressure energy in district heating systems with reduced DC-link voltage variation. Journal of Power Electronics, 2020, 20, 1109-1118.	1.5	6
9	Hardware-Simulator Development and Implementation for Hydraulic Turbine Generation Systems in a District Heating System. Electronics (Switzerland), 2020, 9, 368.	3.1	3
10	Performance Analysis of Direct Torque Control method for Traction System based on IPMSM. Journal of the Korean Society for Railway, 2020, 23, 21-34.	0.1	3
11	Control Method for Phase-Shift Full-Bridge Center-Tapped Converters Using a Hybrid Fuzzy Sliding Mode Controller. Electronics (Switzerland), 2019, 8, 705.	3.1	17
12	An Improved Flying Restart Method of Sensorless PMSM Drive Systems Fed by an ANPC Inverter Using Repetitive Zero Voltage Vectors. , 2019, , .		5
13	New Family of Boost Switched-Capacitor Seven-Level Inverters (BSC7LI). IEEE Transactions on Power Electronics, 2019, 34, 10471-10479.	7.9	132
14	Fast Torque Control and Minimized Sector-Flux Droop for Constant Frequency Torque Controller Based DTC of Induction Machines. IEEE Transactions on Power Electronics, 2019, 34, 12141-12153.	7.9	28
15	Model Predictive Current Control for a PMSM Fed by an Indirect Matrix Converter With Torque Ripple Reduction. , 2019, , .		1
16	Reduction of DC-Link Voltage Fluctuation for Hydraulic Turbine Generation Systems Using Back-to-Back Converters. , 2019, , .		0
17	Dynamic Characteristic Improvement of Phase-Shift Full-Bridge Center-Tapped Converters Using a Model Predictive Control. , 2019, , .		3
18	Improved Switched-Capacitor Integrated Multilevel Inverter With a DC Source String. IEEE Transactions on Industry Applications, 2019, 55, 7368-7376.	4.9	66

#	Article	IF	Citations
19	Minimization of DC-Link Voltage Variation in a Hydraulic Turbine Generation System Using Back-to-Back Converters. Transactions of the Korean Institute of Electrical Engineers, 2019, 68, 1118-1123.	0.1	1
20	Fault-Tolerant and Reconfiguration Control for Boost Multi-level NPC Converter Fed Doubly Fed Induction Machines. , 2019, , .		1
21	Restarting Method for Hydraulic Turbine Generation Systems Applied PMSG Sensorless Control. , 2019, , .		2
22	Control strategy for reduction of current distortion in reverse matrix converter under unbalanced input conditions. , 2018, , .		0
23	Torque-Ripple Reduction and Fast Torque Response Strategy for Predictive Torque Control of Induction Motors. IEEE Transactions on Power Electronics, 2018, 33, 2458-2470.	7.9	60
24	Constant Speed Control of a Permanent-Magnet Synchronous Motor Using a Reverse Matrix Converter Under Variable Generator Input Conditions. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 315-326.	5.4	20
25	Reverse matrix converter control method for PMSM drives using DPC. International Journal of Electronics, 2018, 105, 725-740.	1.4	4
26	Model Predictive Control Using Subdivided Voltage Vectors for Current Ripple Reduction in an Indirect Matrix Converter. , 2018, , .		1
27	Indirect Matrix Converter for Permanent-Magnet-Synchronous-Motor Drives by Improved Torque Predictive Control. , 2018, , .		4
28	Low-Voltage Ride-Through Control Strategy for a Grid-Connected Energy Storage System. Applied Sciences (Switzerland), 2018, 8, 57.	2.5	27
29	Modulation and control strategy for a single-phase to three-phase indirect matrix converter drives. , 2017, , .		2
30	Balanced Current Control Strategy for Current Source Rectifier Stage of Indirect Matrix Converter under Unbalanced Grid Voltage Conditions. Energies, 2017, 10, 27.	3.1	10
31	Discontinuous PWM for low switching losses in indirect matrix converter drives. , 2016, , .		6
32	Control strategy of the mono converter dual parallel surface-mounted permanent magnet synchronous generator in wind power generation system. , 2016, , .		2
33	Reverse matrix converter for permanent magnet synchronous motor drives using a direct power control. , 2015, , .		1
34	Constant speed control for a reverse matrix converter under variable input conditions. , 2015, , .		2
35	Indirect Matrix Converter for Hybrid Electric Vehicle Application with Three-Phase and Single-Phase Outputs. Energies, 2015, 8, 3849-3866.	3.1	37