

# Yeongsu Bak

## List of Publications by Year in descending order

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35  
papers

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citations

933447

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h-index

713466

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all docs

35  
docs citations

35  
times ranked

477  
citing authors

#	ARTICLE	IF	CITATIONS
1	New Family of Boost Switched-Capacitor Seven-Level Inverters (BSC7LI). IEEE Transactions on Power Electronics, 2019, 34, 10471-10479.	7.9	132
2	Improved Switched-Capacitor Integrated Multilevel Inverter With a DC Source String. IEEE Transactions on Industry Applications, 2019, 55, 7368-7376.	4.9	66
3	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
4	Indirect Matrix Converter for Hybrid Electric Vehicle Application with Three-Phase and Single-Phase Outputs. Energies, 2015, 8, 3849-3866.	3.1	37
5	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
6	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
7	Low-Voltage Ride-Through Control Strategy for a Grid-Connected Energy Storage System. Applied Sciences (Switzerland), 2018, 8, 57.	2.5	27
8	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
9	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
10	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
11	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
12	Discontinuous PWM for low switching losses in indirect matrix converter drives. , 2016, , .		6
13	Predictive current control for indirect matrix converter with reduced current ripple. Journal of Power Electronics, 2020, 20, 443-454.	1.5	6
14	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
15	An Improved Flying Restart Method of Sensorless PMSM Drive Systems Fed by an ANPC Inverter Using Repetitive Zero Voltage Vectors. , 2019, , .		5
16	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
17	Reverse matrix converter control method for PMSM drives using DPC. International Journal of Electronics, 2018, 105, 725-740.	1.4	4
18	Indirect Matrix Converter for Permanent-Magnet-Synchronous-Motor Drives by Improved Torque Predictive Control. , 2018, , .		4

#	ARTICLE	IF	CITATIONS
19	Method of estimating initial rotor position for IPMSMs using subdivided voltage vectors based on inductance variation. <i>Journal of Power Electronics</i> , 2020, 20, 1195-1205.	1.5	4
20	Control Methods for Performance Improvement of an Integrated On-Board Battery Charger in Hybrid Electric Vehicles. <i>Electronics (Switzerland)</i> , 2021, 10, 2506.	3.1	4
21	Dynamic Characteristic Improvement of Phase-Shift Full-Bridge Center-Tapped Converters Using a Model Predictive Control. , 2019, , .		3
22	Hardware-Simulator Development and Implementation for Hydraulic Turbine Generation Systems in a District Heating System. <i>Electronics (Switzerland)</i> , 2020, 9, 368.	3.1	3
23	Six-step operation strategy for direct self-control method of interior permanent magnet synchronous motors based on torque angle. <i>Journal of Power Electronics</i> , 2021, 21, 1352-1364.	1.5	3
24	Performance Analysis of Direct Torque Control method for Traction System based on IPMSM. <i>Journal of the Korean Society for Railway</i> , 2020, 23, 21-34.	0.1	3
25	Constant speed control for a reverse matrix converter under variable input conditions. , 2015, , .		2
26	Control strategy of the mono converter dual parallel surface-mounted permanent magnet synchronous generator in wind power generation system. , 2016, , .		2
27	Modulation and control strategy for a single-phase to three-phase indirect matrix converter drives. , 2017, , .		2
28	Restarting Method for Hydraulic Turbine Generation Systems Applied PMSG Sensorless Control. , 2019, , .		2
29	Reverse matrix converter for permanent magnet synchronous motor drives using a direct power control. , 2015, , .		1
30	Model Predictive Control Using Subdivided Voltage Vectors for Current Ripple Reduction in an Indirect Matrix Converter. , 2018, , .		1
31	Model Predictive Current Control for a PMSM Fed by an Indirect Matrix Converter With Torque Ripple Reduction. , 2019, , .		1
32	Minimization of DC-Link Voltage Variation in a Hydraulic Turbine Generation System Using Back-to-Back Converters. <i>Transactions of the Korean Institute of Electrical Engineers</i> , 2019, 68, 1118-1123.	0.1	1
33	Fault-Tolerant and Reconfiguration Control for Boost Multi-level NPC Converter Fed Doubly Fed Induction Machines. , 2019, , .		1
34	Control strategy for reduction of current distortion in reverse matrix converter under unbalanced input conditions. , 2018, , .		0
35	Reduction of DC-Link Voltage Fluctuation for Hydraulic Turbine Generation Systems Using Back-to-Back Converters. , 2019, , .		0