

# Kyo-Beum Lee

## List of Publications by Citations

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293  
papers

5,657  
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42  
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352  
ext. papers

7,380  
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
293	Study and Handling Methods of Power IGBT Module Failures in Power Electronic Converter Systems. <i>IEEE Transactions on Power Electronics</i> , <b>2015</b> , 30, 2517-2533	7.2	319
292	Method for Detecting an Open-Switch Fault in a Grid-Connected NPC Inverter System. <i>IEEE Transactions on Power Electronics</i> , <b>2012</b> , 27, 2726-2739	7.2	189
291	New Modulation Techniques for a Leakage Current Reduction and a Neutral-Point Voltage Balance in Transformerless Photovoltaic Systems Using a Three-Level Inverter. <i>IEEE Transactions on Power Electronics</i> , <b>2014</b> , 29, 1720-1732	7.2	168
290	Reliability Improvement of a T-Type Three-Level Inverter With Fault-Tolerant Control Strategy. <i>IEEE Transactions on Power Electronics</i> , <b>2015</b> , 30, 2660-2673	7.2	158
289	Dynamic Performance Improvement of AC/DC Converter Using Model Predictive Direct Power Control With Finite Control Set. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 757-767	8.9	145
288	. <i>IEEE Transactions on Industry Applications</i> , <b>2014</b> , 50, 495-508	4.3	137
287	Torque ripple reduction in DTC of induction motor driven by three-level inverter with low switching frequency. <i>IEEE Transactions on Power Electronics</i> , <b>2002</b> , 17, 255-264	7.2	123
286	Torque-Ripple Minimization and Fast Dynamic Scheme for Torque Predictive Control of Permanent-Magnet Synchronous Motors. <i>IEEE Transactions on Power Electronics</i> , <b>2015</b> , 30, 2182-2190	7.2	112
285	Fault Diagnosis of DC-Link Capacitors in Three-Phase AC/DC PWM Converters by Online Estimation of Equivalent Series Resistance. <i>IEEE Transactions on Industrial Electronics</i> , <b>2013</b> , 60, 4118-4127	8.9	107
284	Open-Switch Fault Detection Method of a Back-to-Back Converter Using NPC Topology for Wind Turbine Systems. <i>IEEE Transactions on Industry Applications</i> , <b>2015</b> , 51, 325-335	4.3	101
283	Sensorless DTC-SVM for Induction Motor Driven by a Matrix Converter Using a Parameter Estimation Strategy. <i>IEEE Transactions on Industrial Electronics</i> , <b>2008</b> , 55, 512-521	8.9	101
282	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2014</b> , 61, 7092-7104	8.9	97
281	Simple Neutral-Point Voltage Control for Three-Level Inverters Using a Discontinuous Pulse Width Modulation. <i>IEEE Transactions on Energy Conversion</i> , <b>2013</b> , 28, 434-443	5.4	93
280	New Modulation Strategy to Balance the Neutral-Point Voltage for Three-Level Neutral-Clamped Inverter Systems. <i>IEEE Transactions on Energy Conversion</i> , <b>2014</b> , 29, 91-100	5.4	92
279	. <i>IEEE Transactions on Power Electronics</i> , <b>2010</b> , 25, 1320-1330	7.2	80
278	A Modified Level-Shifted PWM Strategy for Fault-Tolerant Cascaded Multilevel Inverters With Improved Power Distribution. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 7264-7274	8.9	74
277	Open-Circuit Fault Diagnosis and Fault-Tolerant Control for a Grid-Connected NPC Inverter. <i>IEEE Transactions on Power Electronics</i> , <b>2015</b> , 1-1	7.2	73

276	Dual-T-Type Seven-Level Boost Active-Neutral-Point-Clamped Inverter. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 6031-6035	7.2	71
275	Virtual-Flux-Based Predictive Direct Power Control of Three-Phase PWM Rectifiers With Fast Dynamic Response. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 3348-3359	7.2	69
274	Novel Discontinuous PWM Method of a Three-Level Inverter for Neutral-Point Voltage Ripple Reduction. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 3344-3354	8.9	68
273	Open-Switch Fault Tolerance Control for a Three-Level NPC/T-Type Rectifier in Wind Turbine Systems. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 1012-1021	8.9	66
272	Diagnosis and Fault-Tolerant Control of Three-Phase ACDC PWM Converter Systems. <i>IEEE Transactions on Industry Applications</i> , <b>2013</b> , 49, 1539-1547	4.3	64
271	. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 1931-1941	7.2	62
270	An Improved DTC-SVM Method for Sensorless Matrix Converter Drives Using an Overmodulation Strategy and a Simple Nonlinearity Compensation. <i>IEEE Transactions on Industrial Electronics</i> , <b>2007</b> , 54, 3155-3166	8.9	62
269	A Novel Carrier-Based PWM Method for Vienna Rectifier With a Variable Power Factor. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 3-12	8.9	61
268	Carrier-Based Discontinuous PWM Method for Vienna Rectifiers. <i>IEEE Transactions on Power Electronics</i> , <b>2015</b> , 30, 2896-2900	7.2	61
267	New Family of Boost Switched-Capacitor Seven-Level Inverters (BSC7LI). <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 10471-10479	7.2	59
266	Control Strategy of Two Capacitor Voltages for Separate MPPTs in Photovoltaic Systems Using Neutral-Point-Clamped Inverters. <i>IEEE Transactions on Industry Applications</i> , <b>2015</b> , 51, 3295-3303	4.3	58
265	Improvement of low-speed operation performance of DTC for three-level inverter-fed induction motors. <i>IEEE Transactions on Industrial Electronics</i> , <b>2001</b> , 48, 1006-1014	8.9	58
264	Modulation Technique for Single-Phase Transformerless Photovoltaic Inverters With Reactive Power Capability. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 6989-6999	8.9	52
263	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 2580-2591	8.9	52
262	. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 4075-4084	7.2	51
261	An Improved Maximum Power Point Tracking Method for Wind Power Systems. <i>Energies</i> , <b>2012</b> , 5, 1339-1354		50
260	An Improved Finite-Set Model Predictive Control Based on Discrete Space Vector Modulation Methods for Grid-Connected Three-Level Voltage Source Inverter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2018</b> , 6, 1744-1760	5.6	48
259	. <i>IEEE Transactions on Power Electronics</i> , <b>2012</b> , 27, 2043-2054	7.2	47

258	Offset-Free Model Predictive Control for the Power Control of Three-Phase AC/DC Converters. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 7114-7126	8.9	46
257	A Robust Deadbeat Finite Set Model Predictive Current Control Based on Discrete Space Vector Modulation for a Grid-Connected Voltage Source Inverter. <i>IEEE Transactions on Energy Conversion</i> , <b>2018</b> , 33, 1719-1728	5.4	45
256	Diagnosis Methods for IGBT Open Switch Fault Applied to 3-Phase AC/DC PWM Converter. <i>Journal of Power Electronics</i> , <b>2012</b> , 12, 120-127	0.9	45
255	Space vector modulation strategy for neutral-point voltage balancing in three-level inverter systems. <i>IET Power Electronics</i> , <b>2013</b> , 6, 1390-1398	2.2	44
254	Method to Minimize the Low-Frequency Neutral-Point Voltage Oscillations With Time-Offset Injection for Neutral-Point-Clamped Inverters. <i>IEEE Transactions on Industry Applications</i> , <b>2015</b> , 51, 1678-1691	4.3	42
253	Torque-Ripple Reduction and Fast Torque Response Strategy for Predictive Torque Control of Induction Motors. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 2458-2470	7.2	42
252	Finite-Control Set Model Predictive Control Method for Torque Control of Induction Motors Using a State Tracking Cost Index. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 1916-1928	8.9	42
251	Robust and Stable Disturbance Observer of Servo System for Low-Speed Operation. <i>IEEE Transactions on Industry Applications</i> , <b>2007</b> , 43, 627-635	4.3	42
250	Reduced-order extended luenberger observer based sensorless vector control driven by matrix converter with nonlinearity compensation. <i>IEEE Transactions on Industrial Electronics</i> , <b>2006</b> , 53, 66-75	8.9	42
249	. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 1692-1701	7.2	39
248	Soft-Switched Interleaved Boost Converters for High Step-Up and High-Power Applications. <i>IEEE Transactions on Power Electronics</i> , <b>2011</b> , 26, 2906-2914	7.2	39
247	Tolerant Control for Power Transistor Faults in Switched Reluctance Motor Drives. <i>IEEE Transactions on Industry Applications</i> , <b>2015</b> , 51, 3187-3197	4.3	37
246	Variable Structure Control of the Active and Reactive Powers for a DFIG in Wind Turbines. <i>IEEE Transactions on Industry Applications</i> , <b>2010</b> , 46, 2545-2555	4.3	36
245	Open-Circuit Fault-Tolerant Control for Outer Switches of Three-Level Rectifiers in Wind Turbine Systems. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 3806-3815	7.2	35
244	Comparison of Tolerance Controls for Open-Switch Fault in a Grid-Connected T-Type Rectifier. <i>IEEE Transactions on Power Electronics</i> , <b>2015</b> , 30, 5810-5820	7.2	35
243	Detecting Open-Switch Faults: Using Asymmetric Zero-Voltage Switching States. <i>IEEE Industry Applications Magazine</i> , <b>2016</b> , 22, 27-37	0.6	33
242	Novel Active-Neutral-Point-Clamped Inverters With Improved Voltage-Boosting Capability. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 5978-5986	7.2	33
241	Predictive Control Algorithm Including Conduction-Mode Detection for PFC Converter. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 5900-5911	8.9	33

240	Fault Diagnosis of a Voltage-Fed PWM Inverter for a Three-parallel Power Conversion System in a Wind Turbine. <i>Journal of Power Electronics</i> , <b>2010</b> , 10, 686-693	0.9	32
239	Predictive Control With Discrete Space-Vector Modulation of Vienna Rectifier for Driving PMSG of Wind Turbine Systems. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 12368-12383	7.2	31
238	Dynamic Hysteresis Torque Band for Improving the Performance of Lookup-Table-Based DTC of Induction Machines. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 7959-7970	7.2	31
237	On-line Parameter Estimation of Interior Permanent Magnet Synchronous Motor using an Extended Kalman Filter. <i>Journal of Electrical Engineering and Technology</i> , <b>2014</b> , 9, 600-608	1.4	30
236	Improved sensorless vector control for induction motor drives fed by a matrix converter using nonlinear modeling and disturbance observer. <i>IEEE Transactions on Energy Conversion</i> , <b>2006</b> , 21, 52-59	5.4	29
235	Robust Feedback-Linearizing Output Voltage Regulator for DC/DC Boost Converter. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 7127-7135	8.9	27
234	Indirect Matrix Converter for Hybrid Electric Vehicle Application with Three-Phase and Single-Phase Outputs. <i>Energies</i> , <b>2015</b> , 8, 3849-3866	3.1	26
233	Combination Analysis and Switching Method of a Cascaded H-Bridge Multilevel Inverter Based on Transformers With the Different Turns Ratio for Increasing the Voltage Level. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 4454-4465	8.9	26
232	Improved Switched-Capacitor Integrated Multilevel Inverter With a DC Source String. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 7368-7376	4.3	26
231	Novel Discontinuous PWM Method for a Single-Phase Three-Level Neutral Point Clamped Inverter With Efficiency Improvement and Harmonic Reduction. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 9253-9266	7.2	25
230	Performance improvement of DTC for induction motor-fed by three-level inverter with an uncertainty observer using RBFN. <i>IEEE Transactions on Energy Conversion</i> , <b>2005</b> , 20, 276-283	5.4	25
229	Reliability Improvement Technology for Power Converters. <i>Power Systems</i> , <b>2017</b> ,	0.4	25
228	. <i>IEEE Transactions on Power Electronics</i> , <b>2017</b> , 32, 1493-1506	7.2	24
227	Neutral-Point Voltage Balancing Method for Three-Level Inverter Systems with a Time-Offset Estimation Scheme. <i>Journal of Power Electronics</i> , <b>2013</b> , 13, 243-249	0.9	24
226	Second-Order Harmonic Reduction Technique for Photovoltaic Power Conditioning Systems Using a Proportional-Resonant Controller. <i>Energies</i> , <b>2013</b> , 6, 79-96	3.1	23
225	Low-cost and energy-efficient asymmetric nickel electrode for alkaline water electrolysis. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 10720-10725	6.7	22
224	. <i>IEEE Transactions on Industry Applications</i> , <b>2007</b> , 43, 1639-1649	4.3	22
223	Hardware Simulator Development for a 3-Parallel Grid-Connected PMSG Wind Power System. <i>Journal of Power Electronics</i> , <b>2010</b> , 10, 555-562	0.9	22

222	Torque Ripple Minimization Scheme Using Torque Sharing Function Based Fuzzy Logic Control for a Switched Reluctance Motor. <i>Journal of Electrical Engineering and Technology</i> , <b>2015</b> , 10, 118-127	1.4	21
221	Advanced Speed Control for a Five-Leg Inverter Driving a Dual-Induction Motor System. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 707-716	8.9	21
220	DC-Link Ripple Current Reduction Method for Three-Level Inverters With Optimal Switching Pattern. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 9204-9214	8.9	20
219	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 1897-1907	8.9	20
218	Simple Power Control for Sensorless Induction Motor Drives Fed by a Matrix Converter. <i>IEEE Transactions on Energy Conversion</i> , <b>2008</b> , 23, 781-788	5.4	20
217	Dual-T-Type Five-Level Cascaded Multilevel Inverter With Double Voltage Boosting Gain. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 9522-9529	7.2	19
216	A nonlinearity compensation method for a matrix converter drive. <i>IEEE Power Electronics Letters</i> , <b>2005</b> , 3, 19-23		19
215	Optimal design of a 1kW switched reluctance generator for wind power systems using a genetic algorithm. <i>IET Electric Power Applications</i> , <b>2016</b> , 10, 807-817	1.8	18
214	Modified Phase-Shifted PWM Scheme for Reliability Improvement in Cascaded H-Bridge Multilevel Inverters. <i>IEEE Access</i> , <b>2020</b> , 8, 78130-78139	3.5	17
213	Fast Torque Control and Minimized Sector-Flux Droop for Constant Frequency Torque Controller Based DTC of Induction Machines. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 12141-12153	7.2	16
212	Hybrid Modulation Scheme for Switching Loss Reduction in a Modular Multilevel High-Voltage Direct Current Converter. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 3178-3191	7.2	16
211	An Improved Control Method for a DFIG in a Wind Turbine under an Unbalanced Grid Voltage Condition. <i>Journal of Electrical Engineering and Technology</i> , <b>2010</b> , 5, 614-622	1.4	16
210	Output Current Ripple Reduction Algorithms for Home Energy Storage Systems. <i>Energies</i> , <b>2013</b> , 6, 5552-5569	3.1	15
209	Active Damping for Wind Power Systems with LCL Filters Using a DFT. <i>Journal of Power Electronics</i> , <b>2012</b> , 12, 326-332	0.9	15
208	Adaptive output voltage tracking controller for uncertain DC/DC boost converter. <i>International Journal of Electronics</i> , <b>2016</b> , 103, 1002-1017	1.2	14
207	Low-Voltage Ride-Through Control Strategy for a Grid-Connected Energy Storage System. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 57	2.6	14
206	Open-switch fault detection method of an NPC converter for wind turbine systems <b>2013</b> ,		14
205	An Improvement of Speed Control Performances of a Two-Mass System using a Universal Approximator. <i>Electrical Engineering</i> , <b>2007</b> , 89, 389-396	1.5	14

204	. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2020</b> , 67, 2044-2048	3.5	14
203	Novel switching method for single-phase NPC three-level inverter with neutral-point voltage control. <i>International Journal of Electronics</i> , <b>2018</b> , 105, 303-323	1.2	14
202	A detection method for an open-switch fault in cascaded H-bridge multilevel inverters <b>2014</b> ,		13
201	Design of an LCL-Filter for Three-Parallel Operation of Power Converters in Wind Turbines. <i>Journal of Power Electronics</i> , <b>2013</b> , 13, 437-446	0.9	13
200	Wide-Range Sensorless Control for SPMSM Using an Improved Full-Order Flux Observer. <i>Journal of Power Electronics</i> , <b>2015</b> , 15, 721-729	0.9	13
199	Switched-Capacitor-Based Modular T-Type Inverter. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 5725-5732	8.9	13
198	Sinusoidal Harmonic Voltage Injection PWM Method for Vienna Rectifier With an LCL Filter. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 2875-2888	7.2	13
197	Constant Speed Control of a Permanent-Magnet Synchronous Motor Using a Reverse Matrix Converter Under Variable Generator Input Conditions. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2018</b> , 6, 315-326	5.6	12
196	A Non-Unity Torque Sharing Function for Torque Ripple Minimization of Switched Reluctance Generators in Wind Power Systems. <i>Energies</i> , <b>2015</b> , 8, 11685-11701	3.1	12
195	Direct Power Control of Three-Phase Boost Rectifiers by using a Sliding-Mode Scheme. <i>Journal of Power Electronics</i> , <b>2013</b> , 13, 1000-1007	0.9	12
194	Performance Improvement of Grid-Connected Inverter Systems under Unbalanced and Distorted Grid Voltage by Using a PR Controller. <i>Journal of Electrical Engineering and Technology</i> , <b>2012</b> , 7, 918-925	1.4	12
193	Fault Detection Method Using a Convolution Neural Network for Hybrid Active Neutral-Point Clamped Inverters. <i>IEEE Access</i> , <b>2020</b> , 8, 140632-140642	3.5	12
192	An Improved Rotating Restart Method for a Sensorless Permanent Magnet Synchronous Motor Drive System Using Repetitive Zero Voltage Vectors. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 3496-3504	8.9	12
191	Fault-tolerant strategy using neutral-shift method for cascaded multilevel inverters based on level-shifted PWM <b>2015</b> ,		11
190	Fault Diagnosis of Open-Switch Failure in a Grid-Connected Three-Level Si/SiC Hybrid ANPC Inverter. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 399	2.6	11
189	MPC-SVM method for Vienna rectifier with PMSG used in Wind Turbine Systems <b>2016</b> ,		11
188	A control scheme to fulfill the grid-code under various fault conditions in the grid-connected wind turbines. <i>Electrical Engineering</i> , <b>2014</b> , 96, 199-210	1.5	11
187	The design of an LCL-filter for the three-parallel operation of a power converter in a wind turbine <b>2010</b> ,		11



186	High Performance Current Controller for Sparse Matrix Converter Based on Model Predictive Control. <i>Journal of Electrical Engineering and Technology</i> , <b>2013</b> , 8, 1138-1145	1.4	11
185	Condition Monitoring of Lithium Polymer Batteries Based on a Sigma-Point Kalman Filter. <i>Journal of Power Electronics</i> , <b>2012</b> , 12, 778-786	0.9	11
184	Enhanced Performance of Constant Frequency Torque Controller Based Direct Torque Control of Induction Machines with Increased Torque-Loop Bandwidth. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 10168-10179	8.9	11
183	Impact of Observability and Multi-objective Optimization on the Performance of Extended Kalman Filter for DTC of AC Machines. <i>Journal of Electrical Engineering and Technology</i> , <b>2019</b> , 14, 231-242	1.4	10
182	Improving Line Current Distortion in Single-Phase Vienna Rectifiers Using Model-Based Predictive Control. <i>Energies</i> , <b>2018</b> , 11, 1237	3.1	10
181	Detection method of an open-switch fault and fault-tolerant strategy for a grid-connected T-type three-level inverter system <b>2012</b> ,		10
180	A 2ndOrder Harmonic Compensation Method for Wind Power System Using a PR Controller. <i>Journal of Electrical Engineering and Technology</i> , <b>2013</b> , 8, 507-515	1.4	10
179	Simple Estimation Scheme for Initial Rotor Position and Inductances for Effective MTPA-Operation in Wind-Power Systems using an IPMSM. <i>Journal of Power Electronics</i> , <b>2010</b> , 10, 396-404	0.9	10
178	Stability Improvement of Distributed Power Generation Systems with an LCL-Filter Using Gain Scheduling Based on Grid Impedance Estimations. <i>Journal of Power Electronics</i> , <b>2011</b> , 11, 599-605	0.9	10
177	Tolerance Control for the Inner Open-Switch Faults of a T-Type Three-Level Rectifier. <i>Journal of Power Electronics</i> , <b>2014</b> , 14, 1157-1165	0.9	10
176	Fault Tolerant Control of DC-Link Voltage Sensor for Three-Phase AC/DC/AC PWM Converters. <i>Journal of Power Electronics</i> , <b>2014</b> , 14, 695-703	0.9	9
175	Current Sensorless MPPT Control Method for Dual-Mode PV Module-Type Interleaved Flyback Inverters. <i>Journal of Power Electronics</i> , <b>2015</b> , 15, 54-64	0.9	9
174	Improved Transient-Based Overmodulation Method for Increased Torque Capability of Direct Torque Control With Constant Torque-Switching Regulator of Induction Machines. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 3928-3938	7.2	9
173	Predictive Torque Control With Simple Duty-Ratio Regulator of PMSM for Minimizing Torque and Flux Ripples. <i>IEEE Access</i> , <b>2020</b> , 8, 2373-2381	3.5	9
172	Improving DC-Link Capacitor Lifetime for Three-Level Photovoltaic Hybrid Active NPC Inverters in Full Modulation Index Range. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 5250-5261	7.2	9
171	Design and Control of Small DC-Link Capacitor-Based Three-Level Inverter with Neutral-Point Voltage Balancing. <i>Energies</i> , <b>2018</b> , 11, 1435	3.1	9
170	A Modified Flux Regulation Method to Minimize Switching Frequency and Improve DTC-Hysteresis-Based Induction Machines in Low-Speed Regions. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2019</b> , 7, 2346-2355	5.6	8
169	An Improved PWM Technique to Achieve Continuous Input Current in Common-Ground Transformerless Boost Inverter. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2020</b> , 67, 3133-3136 <sup>8</sup>	3.5	8



168	An Improved Phase-Shifted DPWM Method for Reducing Switching Loss and Thermal Balancing in Cascaded H-Bridge Multilevel Inverter. <i>IEEE Access</i> , <b>2020</b> , 8, 187072-187083	3.5	8
167	Torque Ripple Reduction and Flux-Droop Minimization of DTC With Improved Interleaving CSFTC of IM Fed by Three-Level NPC Inverter. <i>IEEE Access</i> , <b>2019</b> , 7, 184266-184275	3.5	8
166	Fault Diagnosis and Fault-Tolerant Control of Megawatt Power Electronic Converter-Fed Large-Rated Asynchronous Hydrogenerator. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2019</b> , 7, 2403-2416	5.6	8
165	A Novel Boost Cascaded Multilevel Inverter. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 8072-8080	3.9	8
164	. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 12490-12503	7.2	8
163	Robust speed control algorithm with disturbance observer for uncertain PMSM. <i>International Journal of Electronics</i> , <b>2018</b> , 105, 1300-1318	1.2	7
162	Fault-tolerant control scheme for modular multilevel converter based on sorting algorithm without reserved submodules <b>2018</b> ,		7
161	Control Method for Phase-Shift Full-Bridge Center-Tapped Converters Using a Hybrid Fuzzy Sliding Mode Controller. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 705	2.6	7
160	Rotor position estimation method of IPMSM using HF signal injection and sliding-mode controller. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , <b>2014</b> , 9, S56	1	7
159	An improved phase-shifted PWM method for a three-phase cascaded H-bridge multi-level inverter <b>2017</b> ,		7
158	<b>2014</b> ,		7
157	A Z-source sparse matrix converter with a fuzzy logic controller based compensation method under abnormal input voltage conditions <b>2010</b> ,		7
156	A Controller Design for a Stability Improvement of an On-Board Battery Charger. <i>Journal of Electrical Engineering and Technology</i> , <b>2013</b> , 8, 951-958	1.4	7
155	Controller Design for a Quick Charger System Suitable for Electric Vehicles. <i>Journal of Electrical Engineering and Technology</i> , <b>2013</b> , 8, 1122-1130	1.4	7
154	Performance Improvement of a Bidirectional DC-DC Converter for Battery Chargers using an LCLC Filter. <i>Journal of Electrical Engineering and Technology</i> , <b>2015</b> , 10, 560-573	1.4	7
153	Bearing Fault Detection of IPMSMs using Zoom FFT. <i>Journal of Electrical Engineering and Technology</i> , <b>2016</b> , 11, 1235-1241	1.4	7
152	Open Fault Detection and Tolerant Control for a Five Phase Inverter Driving System. <i>Energies</i> , <b>2016</b> , 9, 355	3.1	7
151	A Dead-Beat Control for Bridgeless Inverter Systems to Reduce the Distortion of Grid Current. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2018</b> , 6, 151-164	5.6	7

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149	Open-Circuit Fault Tolerance Method for Three-Level Hybrid Active Neutral Point Clamped Converters. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 1535	2.6	6
148	Performance Improvement for Reduction of Resonance in a Grid-Connected Inverter System Using an Improved DPWM Method. <i>Energies</i> , <b>2018</b> , 11, 113	3.1	6
147	Development of a Hardware Simulator for Reliable Design of Modular Multilevel Converters Based on Junction-Temperature of IGBT Modules. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 1127	2.6	6
146	Torque ripple minimization of switched reluctance motors based on fuzzy logic and sliding mode control <b>2013</b> ,		6
145	<b>2014</b> ,		6
144	A Z-source sparse matrix converter under a voltage sag condition <b>2010</b> ,		6
143	A Simple Strategy for Sensorless Speed Control for an IPMSM During Startup and Over Wide Speed Range. <i>Journal of Electrical Engineering and Technology</i> , <b>2014</b> , 9, 1582-1591	1.4	6
142	Reduction of Current Ripples due to Current Measurement Errors in a Doubly Fed Induction Generator. <i>Journal of Power Electronics</i> , <b>2010</b> , 10, 313-319	0.9	6
141	Low-Speed Performance Improvement of Direct Torque Control for Induction Motor Drives Fed by Three-Level NPC Inverter. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 77	2.6	6
140	Multi Open-/Short-Circuit Fault-Tolerance Using Modified SVM Technique for Three-Level HANPC Converters. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 13621-13633	7.2	6
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138	An Improved Flying Restart Method of Sensorless PMSM Drive Systems Fed by an ANPC Inverter Using Repetitive Zero Voltage Vectors <b>2019</b> ,		5
137	Evaluation of Direct Torque Control with a Constant-Frequency Torque Regulator under Various Discrete Interleaving Carriers. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 820	2.6	5
136	Improved Deadbeat FC-MPC Based on the Discrete Space Vector Modulation Method with Efficient Computation for a Grid-Connected Three-Level Inverter System. <i>Energies</i> , <b>2019</b> , 12, 3111	3.1	5
135	Line current improvement of three-phase four-wire vienna rectifier using dead-beat control <b>2017</b> ,		5
134	A two-stage bidirectional DC/DC converter with SiC-MOSFET for vehicle-to-grid (V2G) application <b>2017</b> ,		5
133	Balanced Current Control Strategy for Current Source Rectifier Stage of Indirect Matrix Converter under Unbalanced Grid Voltage Conditions. <i>Energies</i> , <b>2017</b> , 10, 27	3.1	5

132	Robust one-step ahead state predictor using adaptive proportional integral observer. <i>IET Power Electronics</i> , <b>2015</b> , 8, 2411-2417	2.2	5
131	A new PLL system using full order observer and PLL system modeling in a single phase grid-connected inverter <b>2011</b> ,		5
130	Torque Ripple Reduction in Direct Torque Control of Five-Phase Induction Motor Using Fuzzy Controller with Optimized Voltage Vector Selection Strategy. <i>Journal of Electrical Engineering and Technology</i> , <b>2017</b> , 12, 1177-1186	1.4	5
129	Scheme to Improve the Line Current Distortion of PFC Using a Predictive Control Algorithm. <i>Journal of Power Electronics</i> , <b>2015</b> , 15, 1168-1177	0.9	5
128	Fault-Tolerant Strategy to Control a Reverse Matrix Converter for Open-Switch Faults in the Rectifier Stage. <i>Journal of Power Electronics</i> , <b>2016</b> , 16, 57-65	0.9	5
127	Four-Level Hysteresis-Based DTC for Torque Capability Improvement of IPMSM Fed by Three-Level NPC Inverter. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 1558	2.6	5
126	Predictive Torque Control Based on Discrete Space Vector Modulation of PMSM without Flux Error-Sign and Voltage-Vector Lookup Table. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 1542	2.6	5
125	Elimination of Abnormal Output Voltage in a Hybrid Active NPC Inverter. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 5348-5361	7.2	5
124	DC-link Ripple Reduction in a DPWM-Based Two-Level VSI. <i>Energies</i> , <b>2018</b> , 11, 3008	3.1	5
123	An optimized switching scheme for DC-link current ripple reduction in three-level T-type inverter <b>2017</b> ,		4
122	Method of estimating initial rotor position for IPMSMs using subdivided voltage vectors based on inductance variation. <i>Journal of Power Electronics</i> , <b>2020</b> , 20, 1195-1205	0.9	4
121	Reverse matrix converter control method for PMSM drives using DPC. <i>International Journal of Electronics</i> , <b>2018</b> , 105, 725-740	1.2	4
120	A fault detection method in cascaded H-bridge multilevel inverter <b>2016</b> ,		4
119	Hybrid parallel three-level converter topology for large wind turbine generation systems <b>2014</b> ,		4
118	SPMSM sensorless control for wide speed range using full-order flux observer <b>2014</b> ,		4
117	Improved DPWM scheme for improvement of grid current quality in a large-scale grid-connected inverter system with a LCL-filter <b>2015</b> ,		4
116	Cascaded H-bridge multilevel inverter for increasing output voltage levels <b>2014</b> ,		4
115	A novel MPC-SVM strategy for direct torque flux control of an induction motor drive system using a matrix converter <b>2014</b> ,		4

114	Control method in a wind turbine driven by 3-parallel back-to-back converters using PQR power transformation <b>2010</b> ,		4
113	Direct Power Control of a Doubly Fed Induction Generator with a Fixed Switching Frequency <b>2008</b> ,		4
112	A Uni-Directional Voltage Vector Preselection Strategy for Optimizing Model Predictive Torque Control with Discrete Space Vector Modulation of IPMSM. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	4
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109	Letters Current Quality Improvement for a Vienna Rectifier with High-Switching Frequency. <i>The Transactions of the Korean Institute of Power Electronics</i> , <b>2017</b> , 22, 181-184		4
108	A New Unity-Gain 5-Level Active Neutral-Point-Clamped (UG-5L-ANPC) Inverter <b>2019</b> ,		4
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99	Predictive current control for indirect matrix converter with reduced current ripple. <i>Journal of Power Electronics</i> , <b>2020</b> , 20, 443-454	0.9	3
98	MPC-SVM method with subdivision strategy for current ripples reduction and neutral-point voltage balance in three-level inverter <b>2017</b> ,		3
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94	Fault-tolerant switched reluctance machine drives using a current Park's vector <b>2015</b> ,		3
93	Torque ripple reduction and fast torque response strategy of direct torque control for permanent-magnet synchronous motor <b>2013</b> ,		3
92	A control scheme of the low voltage ride through in wind turbines using a direct power control based on a sliding mode control <b>2013</b> ,		3
91	Novel switching strategy for high-efficiency of single-phase three-level inverters <b>2014</b> ,		3
90	An inertia identification using ROELO for low speed control of electric machine		3
89	Three-level inverter-fed model predictive torque control of a permanent magnet synchronous motor with discrete space vector modulation and simplified neutral point voltage balancing. <i>Journal of Power Electronics</i> ,1	0.9	3
88	Simple Sensorless Control of Interior Permanent Magnet Synchronous Motor Using PLL Based on Extended EMF. <i>Journal of Electrical Engineering and Technology</i> , <b>2017</b> , 12, 711-717	1.4	3
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86	Performance Analysis of Direct Torque Control method for Traction System based on IPMSM. <i>Journal of the Korean Society for Railway</i> , <b>2020</b> , 23, 21-34	1.5	3
85	Model-Based Predictive Control for Interleaved Multi-Phase DC/DC Converters. <i>The Transactions of the Korean Institute of Power Electronics</i> , <b>2014</b> , 19, 415-421		3
84	Optimized Space-Vector Modulation to Reduce Neutral Point Current for Extending Capacitor Lifetime in Three-Level Inverters. <i>IEEE Access</i> , <b>2020</b> , 8, 97689-97697	3.5	3
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82	LCL-Filter Design Based on Modulation Index for Grid-Connected Three-Level Hybrid ANPC Inverters. <i>Journal of Electrical Engineering and Technology</i> , <b>2021</b> , 16, 1517-1525	1.4	3
81	Discontinuous PWM for low switching losses in indirect matrix converter drives <b>2016</b> ,		3
80	Five-phase five-level open-winding/star-winding inverter drive for low-voltage/high-current applications <b>2016</b> ,		3
79	Simple rotor position estimation for sensorless control of IPMSM using PLL based on EEMF <b>2016</b> ,		3

78	A Switching Method for Improving Lifetime of DC-Link Capacitors in Hybrid ANPC Inverters <b>2019</b> ,		3
77	Performance improvement of cascaded H-bridge multilevel inverters with modified modulation scheme. <i>Journal of Power Electronics</i> , <b>2021</b> , 21, 541-552	0.9	3
76	Indirect Matrix Converter for Permanent-Magnet-Synchronous-Motor Drives by Improved Torque Predictive Control <b>2018</b> ,		3
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71	An optimal control method of clamp switch for ZVS bi-directional DC-DC converter <b>2016</b> ,		2
70	A carrier-based PWM with synchronous switching technique for a vienna rectifier <b>2016</b> ,		2
69	Robust Offset-Free Speed Tracking Controller of Permanent Magnet Synchronous Generator for Wind Power Generation Applications. <i>Electronics (Switzerland)</i> , <b>2018</b> , 7, 48	2.6	2
68	A Novel Modulation Method for Half-Bridge Based Modular Multilevel Converter under Submodule Failure with Reduced Switching Frequency <b>2019</b> ,		2
67	<b>2014</b> ,		2
66	A Fault Detection Method and a Tolerance Control in a Single-Phase Cascaded H-bridge Multilevel Inverter. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 7819-7823	0.7	2
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64	Optimal phase shifted method to reduce current ripples for parallel grid-connected voltage source inverter under unequal DC-link voltages <b>2017</b> ,		2
63	High-efficiency switching strategy and neutral-point voltage control in single-phase three-level inverter <b>2015</b> ,		2
62	Optimal design of a switched reluctance generator for small wind power system using a genetic algorithm <b>2015</b> ,		2
61	Constant speed control for a reverse matrix converter under variable input conditions <b>2015</b> ,		2



60	An open-switch fault detection method and tolerance controls based on MPDPC in a NPC rectifier <b>2014,</b>		2
59	An improved DPWM method for reduction of resonant problem in the inverter <b>2014,</b>		2
58	Corrections to Advanced Dynamic Simulation of Supercapacitors Considering Parameter Variation and Self-Discharge [Nov 11 3377-3385]. <i>IEEE Transactions on Power Electronics</i> , <b>2012</b> , 27, 1653-1653	7.2	2
57	Method to minimize the low-frequency neutral-point voltage oscillations with time-offset injection for neutral-point-clamped inverters <b>2013,</b>		2
56	Performance improvement of sensorless vector control for matrix converter drives using PQR power theory. <i>Electrical Engineering</i> , <b>2007</b> , 89, 607-616	1.5	2
55	Performance improvement of sensorless vector control for induction motor drives fed by matrix converter using nonlinear model and disturbance observer		2
54	Design and Implementation of a Reverse Matrix Converter for Permanent Magnet Synchronous Motor Drives. <i>Journal of Electrical Engineering and Technology</i> , <b>2015</b> , 10, 2297-2306	1.4	2
53	Design of an LCL-Filter for Grid-Connected Hybrid ANPC Inverters. <i>Transactions of the Korean Institute of Electrical Engineers</i> , <b>2019</b> , 68, 1330-1337	1.5	2
52	Bidirectional Soft Switching Three-Phase Interleaved DC-DC Converter for a Wide Input Voltage Range. <i>The Transactions of the Korean Institute of Power Electronics</i> , <b>2015</b> , 20, 313-320		2
51	Off-Line Parameter Identification of Permanent Magnet Synchronous Motor Using a Goertzel Algorithm. <i>Journal of Electrical Engineering and Technology</i> , <b>2015</b> , 10, 2262-2270	1.4	2
50	Multiple-Fault-Tolerant Strategy for Three-Phase Hybrid Active Neutral Point Clamped Converters Using Enhanced Space Vector Modulation Technique. <i>IEEE Access</i> , <b>2020</b> , 8, 180113-180123	3.5	2
49	Performance Improvement of a Grid-Connected Inverter under Distorted Grid Voltage Using a Harmonic Extractor. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 1038	2.6	2
48	Detecting Method for an Open-Switch Fault of SiC MOSFET and Si IGBT in Hybrid ANPC Inverter System <b>2019,</b>		2
47	Dynamic Characteristic Improvement of Phase-Shift Full-Bridge Center-Tapped Converters Using a Model Predictive Control. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	2
46	Robust DC-Link Voltage Tracking Controller with Variable Control Gain for Permanent Magnet Synchronous Generators. <i>Electronics (Switzerland)</i> , <b>2018</b> , 7, 339	2.6	2
45	Open-Switch Fault Diagnosis and Tolerant Control Methods for a Vienna Rectifier Using Bi-Directional Switches <b>2018,</b>		2
44	Deadbeat predictive direct power control of interleaved buck converter-based fast battery chargers for electric vehicles. <i>Journal of Power Electronics</i> , <b>2020</b> , 20, 1162-1171	0.9	1
43	Fault detection and fault-tolerant operation of a five-phase induction motor driving system <b>2016,</b>		1

42	Fault diagnosis method for power transistors in switched reluctance machine drive system <b>2016,</b>		1
41	Control strategy of the mono converter dual parallel surface-mounted permanent magnet synchronous generator in wind power generation system <b>2016,</b>		1
40	Integrated Battery Charging Circuit and Model Predictive Current Controller for Hybrid Electric Vehicles <b>2019,</b>		1
39	A fault diagnosis and tolerant method for switched reluctance motor drives <b>2013,</b>		1
38	Open-circuit fault diagnosis for a grid-connected NPC inverter with unity Power Factor <b>2015,</b>		1
37	Reverse matrix converter for permanent magnet synchronous motor drives using a direct power control <b>2015,</b>		1
36	Neutral-point voltage control for grid-connected three-level inverters using a discontinuous pulse width modulation <b>2012,</b>		1
35	Stability improvement in an on-board battery charger for electric vehicles <b>2012,</b>		1
34	Diagnosis of the open-circuit fault in three-parallel voltage-source converter for a high-power wind turbine <b>2011,</b>		1
33	A novel gain scheduling method for distributed power generation systems with a LCL-filter by estimating grid impedance <b>2010,</b>		1
32	Capacitance of a coaxial line terminated by a gap. <i>Journal of Electrostatics</i> , <b>2010</b> , 68, 200-202	1.7	1
31	Sensorless Power Control for Induction Motor Drives Fed by a Matrix Converter. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , <b>2006,</b>		1
30	Open Fault Tolerant Method Using DPWM for Reducing Switching Loss in Three-Level Hybrid ANPC Inverter <b>2021,</b>		1
29	Multiple Harmonics Reduction Method for the Integrated On-board Battery Charging System of Hybrid Electric Vehicles. <i>IEEJ Journal of Industry Applications</i> , <b>2020</b> , 9, 235-243	0.7	1
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21	Independent switching technique to remove abnormal output voltage in hybrid active NPC inverters. <i>Journal of Power Electronics</i> , <b>2021</b> , 21, 85-93	0.9		1
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19	Capacitor Lifetime Extension in a Hybrid Active Neutral-Point-Clamped Inverter With Reduction of DC-Link Ripple Current and Common-Mode Voltage. <i>IEEE Access</i> , <b>2021</b> , 9, 40336-40348	3.5		1
18	Model Predictive Control Using Subdivided Voltage Vectors for Current Ripple Reduction in an Indirect Matrix Converter <b>2018,</b>			1
17	Improved Over Modulation Strategy in DTC with Constant Frequency Torque Controller of PMSM for Quick Torque Control at Different Dynamic Conditions <b>2018,</b>			1
16	A Bidirectional Double Uneven Power Converter Based DCDC Converter for Solid-State Transformers. <i>Electronics (Switzerland)</i> , <b>2018</b> , 7, 334	2.6		1
15	Improved Model Predictive Control Method for Two Induction Motor Fed by Five-Leg Inverter System <b>2018,</b>			1
14	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> , <b>2021</b> , 21, 1352-1364	0.9		1
13	Hardware implementation for hybrid active NPC converters using FPGA-based dual pulse width modulation. <i>Journal of Power Electronics</i> ,1	0.9		1
12	Direct Self-control of Interior Permanent Magnet Synchronous Motors with a Constant Switching Frequency. <i>Journal of Electrical Engineering and Technology</i> ,1	1.4		0
11	Estimation of Junction Temperature in a Two-Level Insulated-Gate Bipolar Transistor Inverter for Motor Drives. <i>Journal of Electrical Engineering and Technology</i> ,1	1.4		0
10	Rotor position estimation over entire speed range of interior permanent magnet synchronous motors. <i>Journal of Power Electronics</i> , <b>2021</b> , 21, 693-702	0.9		0
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8	Influence of open-switch failures on DC-link capacitors in hybrid ANPC inverters. <i>Journal of Power Electronics</i> , <b>2021</b> , 21, 1735	0.9		0
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2	Second harmonic reduction method for ZVS operation in a fuel cell system. <i>Journal of Power Electronics</i> , <b>2020</b> , 20, 388-398	0.9	
1	Dual-Carrier-Based PWM Method for DC-Link Capacitor Lifetime Extension in Three-Level Hybrid ANPC Inverters. <i>IEEE Transactions on Industrial Electronics</i> , <b>2022</b> , 1-1	8.9	