

Kyo-Beum Lee

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

293
papers

5,657
citations

42
h-index

65
g-index

352
ext. papers

7,380
ext. citations

3.6
avg, IF

6.75
L-index

#	Paper	IF	Citations
293	Sensorless Direct Torque Control for Interior Permanent-Magnet Synchronous Motors Using Square-Wave-Type Stator Flux Injection at Low-Speed Regions. <i>Journal of Electrical Engineering and Technology</i> , 2022 , 17, 329	1.4	0
292	Current-Sensorless Energy-Shaping Output Voltage-Tracking Control for DC/DC Boost Converters with Damping Adaptation Mechanism. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	0
291	Dual-Carrier-Based PWM Method for DC-Link Capacitor Lifetime Extension in Three-Level Hybrid ANPC Inverters. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	
290	Open Fault Tolerant Method Using DPWM for Reducing Switching Loss in Three-Level Hybrid ANPC Inverter 2021 ,		1
289	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> , 2021 , 1-1	8.9	4
288	LCL-Filter Design Based on Modulation Index for Grid-Connected Three-Level Hybrid ANPC Inverters. <i>Journal of Electrical Engineering and Technology</i> , 2021 , 16, 1517-1525	1.4	3
287	Switched-Capacitor-Based Modular T-Type Inverter. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 5725-5732	8.9	13
286	Sinusoidal Harmonic Voltage Injection PWM Method for Vienna Rectifier With an LCL Filter. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 2875-2888	7.2	13
285	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> , 2021 , 36, 5250-5261	7.2	9
284	Independent switching technique to remove abnormal output voltage in hybrid active NPC inverters. <i>Journal of Power Electronics</i> , 2021 , 21, 85-93	0.9	1
283	Elimination of Abnormal Output Voltage in a Hybrid Active NPC Inverter. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 5348-5361	7.2	5
282	Current-balancing strategy for multileg interleaved DC/DC converters of electric-vehicle chargers. <i>Journal of Power Electronics</i> , 2021 , 21, 94-102	0.9	1
281	A Novel Boost Cascaded Multilevel Inverter. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 8072-8080	8.9	8
280	Dynamic Characteristic Improvement of Phase-Shift Full-Bridge Center-Tapped Converters Using a Model Predictive Control. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	2
279	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> , 2021 , 9, 40336-40348	3.5	1
278	Performance improvement of cascaded H-bridge multilevel inverters with modified modulation scheme. <i>Journal of Power Electronics</i> , 2021 , 21, 541-552	0.9	3
277	Rotor position estimation over entire speed range of interior permanent magnet synchronous motors. <i>Journal of Power Electronics</i> , 2021 , 21, 693-702	0.9	0

276	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	0.9	1
275	Influence of open-switch failures on DC-link capacitors in hybrid ANPC inverters. <i>Journal of Power Electronics</i> , 2021 , 21, 1735	0.9	0
274	. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 12490-12503	7.2	8
273	Multi Open-/Short-Circuit Fault-Tolerance Using Modified SVM Technique for Three-Level HANPC Converters. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 13621-13633	7.2	6
272	Switched-Capacitor-Based Five-Level T-Type Inverter (SC-5TI) With Soft-Charging and Enhanced DC-Link Voltage Utilization. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 13958-13967	7.2	7
271	Open-Circuit Fault Tolerance Method for Three-Level Hybrid Active Neutral Point Clamped Converters. <i>Electronics (Switzerland)</i> , 2020 , 9, 1535	2.6	6
270	Switch Open-Fault Detection for a Three-Phase Hybrid Active Neutral-Point-Clamped Rectifier. <i>Electronics (Switzerland)</i> , 2020 , 9, 1437	2.6	3
269	Modified Phase-Shifted PWM Scheme for Reliability Improvement in Cascaded H-Bridge Multilevel Inverters. <i>IEEE Access</i> , 2020 , 8, 78130-78139	3.5	17
268	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	0.9	4
267	Deadbeat predictive direct power control of interleaved buck converter-based fast battery chargers for electric vehicles. <i>Journal of Power Electronics</i> , 2020 , 20, 1162-1171	0.9	1
266	Fault Diagnosis of Open-Switch Failure in a Grid-Connected Three-Level Si/SiC Hybrid ANPC Inverter. <i>Electronics (Switzerland)</i> , 2020 , 9, 399	2.6	11
265	Predictive current control for indirect matrix converter with reduced current ripple. <i>Journal of Power Electronics</i> , 2020 , 20, 443-454	0.9	3
264	Development of PCS to utilize differential pressure energy in district heating systems with reduced DC-link voltage variation. <i>Journal of Power Electronics</i> , 2020 , 20, 1109-1118	0.9	5
263	Hardware-Simulator Development and Implementation for Hydraulic Turbine Generation Systems in a District Heating System. <i>Electronics (Switzerland)</i> , 2020 , 9, 368	2.6	2
262	Dual-T-Type Five-Level Cascaded Multilevel Inverter With Double Voltage Boosting Gain. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 9522-9529	7.2	19
261	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> , 2020 , 67, 3133-3136 ⁸	3.5	8
260	Multiple Harmonics Reduction Method for the Integrated On-board Battery Charging System of Hybrid Electric Vehicles. <i>IEEJ Journal of Industry Applications</i> , 2020 , 9, 235-243	0.7	1
259	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	1.5	3

258	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> , 2020 , 35, 3928-3938	7.2	9
257	Low-Speed Performance Improvement of Direct Torque Control for Induction Motor Drives Fed by Three-Level NPC Inverter. <i>Electronics (Switzerland)</i> , 2020 , 9, 77	2.6	6
256	Novel Active-Neutral-Point-Clamped Inverters With Improved Voltage-Boosting Capability. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 5978-5986	7.2	33
255	Predictive Torque Control With Simple Duty-Ratio Regulator of PMSM for Minimizing Torque and Flux Ripples. <i>IEEE Access</i> , 2020 , 8, 2373-2381	3.5	9
254	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> , 2020 , 67, 10168-10179	8.9	11
253	Four-Level Hysteresis-Based DTC for Torque Capability Improvement of IPMSM Fed by Three-Level NPC Inverter. <i>Electronics (Switzerland)</i> , 2020 , 9, 1558	2.6	5
252	Optimized Space-Vector Modulation to Reduce Neutral Point Current for Extending Capacitor Lifetime in Three-Level Inverters. <i>IEEE Access</i> , 2020 , 8, 97689-97697	3.5	3
251	Multiple-Fault-Tolerant Strategy for Three-Phase Hybrid Active Neutral Point Clamped Converters Using Enhanced Space Vector Modulation Technique. <i>IEEE Access</i> , 2020 , 8, 180113-180123	3.5	2
250	An Improved Phase-Shifted DPWM Method for Reducing Switching Loss and Thermal Balancing in Cascaded H-Bridge Multilevel Inverter. <i>IEEE Access</i> , 2020 , 8, 187072-187083	3.5	8
249	Predictive Torque Control Based on Discrete Space Vector Modulation of PMSM without Flux Error-Sign and Voltage-Vector Lookup Table. <i>Electronics (Switzerland)</i> , 2020 , 9, 1542	2.6	5
248	Open Fault Diagnosis and Tolerance Control for Grid-Connected Hybrid Active Neutral-Point-Clamped Inverters With Optimized Carrier-Based Pulse Width Modulation. <i>IEEE Access</i> , 2020 , 8, 145542-145553	3.5	3
247	Fault Detection Method Using a Convolution Neural Network for Hybrid Active Neutral-Point Clamped Inverters. <i>IEEE Access</i> , 2020 , 8, 140632-140642	3.5	12
246	Improved Finite Set-Predictive Torque Control of PMSM Fed by Indirect Matrix Converter with Discrete Space Vector Modulation. <i>Electronics (Switzerland)</i> , 2020 , 9, 2133	2.6	1
245	. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020 , 67, 2044-2048	3.5	14
244	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> , 2020 , 67, 3496-3504	8.9	12
243	Second harmonic reduction method for ZVS operation in a fuel cell system. <i>Journal of Power Electronics</i> , 2020 , 20, 388-398	0.9	
242	A Controller Design for a Stability Improvement of an Integrated Charging System in Hybrid Electric Vehicle. <i>IFAC-PapersOnLine</i> , 2019 , 52, 141-146	0.7	2
241	A Modified Third Harmonic Pulse-Width Modulation for Reduced Switching Loss in Cascaded H-Bridge Multilevel Inverters. <i>IFAC-PapersOnLine</i> , 2019 , 52, 472-476	0.7	3

240	New Family of Boost Switched-Capacitor Seven-Level Inverters (BSC7LI). <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 10471-10479	7.2	59
239	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> , 2019 , 14, 231-242	1.4	10
238	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> , 2019 , 34, 12141-12153	7.2	16
237	Predictive Control With Discrete Space-Vector Modulation of Vienna Rectifier for Driving PMSG of Wind Turbine Systems. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 12368-12383	7.2	31
236	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> , 2019 , 7, 2346-2355	5.6	8
235	Multi-channel VSI fed large variable speed asynchronous hydro-condenser: fault analysis, fault diagnosis and fault tolerant control. <i>IET Renewable Power Generation</i> , 2019 , 13, 438-450	2.9	3
234	Hybrid Modulation Scheme for Switching Loss Reduction in a Modular Multilevel High-Voltage Direct Current Converter. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 3178-3191	7.2	16
233	Control Method for Phase-Shift Full-Bridge Center-Tapped Converters Using a Hybrid Fuzzy Sliding Mode Controller. <i>Electronics (Switzerland)</i> , 2019 , 8, 705	2.6	7
232	2019 ,		3
231	A Novel Modulation Method for Half-Bridge Based Modular Multilevel Converter under Submodule Failure with Reduced Switching Frequency 2019 ,		2
230	An Improved Flying Restart Method of Sensorless PMSM Drive Systems Fed by an ANPC Inverter Using Repetitive Zero Voltage Vectors 2019 ,		5
229	Integrated Battery Charging Circuit and Model Predictive Current Controller for Hybrid Electric Vehicles 2019 ,		1
228	Evaluation of Direct Torque Control with a Constant-Frequency Torque Regulator under Various Discrete Interleaving Carriers. <i>Electronics (Switzerland)</i> , 2019 , 8, 820	2.6	5
227	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> , 2019 , 12, 3111	3.1	5
226	Development of a Hardware Simulator for Reliable Design of Modular Multilevel Converters Based on Junction-Temperature of IGBT Modules. <i>Electronics (Switzerland)</i> , 2019 , 8, 1127	2.6	6
225	Boost multi-level NPC-fed VS large rated asynchronous pumped storage hydro-generating unit. <i>IET Electric Power Applications</i> , 2019 , 13, 1488-1496	1.8	3
224	Performance Analysis on a Bidirectional Operation of a Three-Level Hybrid ANPC Inverter. <i>Transactions of the Korean Institute of Electrical Engineers</i> , 2019 , 68, 1204-1213	1.5	3
223	Design of an LCL-Filter for Grid-Connected Hybrid ANPC Inverters. <i>Transactions of the Korean Institute of Electrical Engineers</i> , 2019 , 68, 1330-1337	1.5	2

222	Fault Diagnosis Method for Switched Reluctance Machine Drive Systems Using a Switching Signal. <i>Journal of Electrical Engineering and Technology</i> , 2019 , 14, 663-676	1.4	1
221	A Switching Method for Improving Lifetime of DC-Link Capacitors in Hybrid ANPC Inverters 2019 ,		3
220	2019 ,		1
219	Performance Improvement of a Grid-Connected Inverter under Distorted Grid Voltage Using a Harmonic Extractor. <i>Electronics (Switzerland)</i> , 2019 , 8, 1038	2.6	2
218	A New Unity-Gain 5-Level Active Neutral-Point-Clamped (UG-5L-ANPC) Inverter 2019 ,		4
217	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> , 2019 , 7, 184266-184275	3.5	8
216	Detecting Method for an Open-Switch Fault of SiC MOSFET and Si IGBT in Hybrid ANPC Inverter System 2019 ,		2
215	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> , 2019 , 7, 2403-2416	5.6	8
214	Improved Switched-Capacitor Integrated Multilevel Inverter With a DC Source String. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 7368-7376	4.3	26
213	Dual-T-Type Seven-Level Boost Active-Neutral-Point-Clamped Inverter. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 6031-6035	7.2	71
212	Advanced Speed Control for a Five-Leg Inverter Driving a Dual-Induction Motor System. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 707-716	8.9	21
211	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> , 2018 , 65, 4454-4465	8.9	26
210	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> , 2018 , 33, 9253-9266	7.2	25
209	Robust speed control algorithm with disturbance observer for uncertain PMSM. <i>International Journal of Electronics</i> , 2018 , 105, 1300-1318	1.2	7
208	Dynamic Hysteresis Torque Band for Improving the Performance of Lookup-Table-Based DTC of Induction Machines. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 7959-7970	7.2	31
207	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> , 2018 , 33, 1719-1728	5.4	45
206	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> , 2018 , 6, 1744-1760	5.6	48
205	Fault-tolerant control scheme for modular multilevel converter based on sorting algorithm without reserved submodules 2018 ,		7

204	DC-Link Ripple Current Reduction Method for Three-Level Inverters With Optimal Switching Pattern. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 9204-9214	8.9	20
203	Clamping Angle Control PWM Method to Restore Linear Modulation Range of a Voltage Source Inverter. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 10914-10923	7.2	2
202	Torque-Ripple Reduction and Fast Torque Response Strategy for Predictive Torque Control of Induction Motors. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 2458-2470	7.2	42
201	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> , 2018 , 6, 315-326	5.6	12
200	. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 1897-1907	8.9	20
199	Reverse matrix converter control method for PMSM drives using DPC. <i>International Journal of Electronics</i> , 2018 , 105, 725-740	1.2	4
198	Low-Voltage Ride-Through Control Strategy for a Grid-Connected Energy Storage System. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 57	2.6	14
197	Robust Offset-Free Speed Tracking Controller of Permanent Magnet Synchronous Generator for Wind Power Generation Applications. <i>Electronics (Switzerland)</i> , 2018 , 7, 48	2.6	2
196	Performance Improvement for Reduction of Resonance in a Grid-Connected Inverter System Using an Improved DPWM Method. <i>Energies</i> , 2018 , 11, 113	3.1	6
195	Improving Line Current Distortion in Single-Phase Vienna Rectifiers Using Model-Based Predictive Control. <i>Energies</i> , 2018 , 11, 1237	3.1	10
194	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> , 2018 , 6, 151-164	5.6	7
193	Novel switching method for single-phase NPC three-level inverter with neutral-point voltage control. <i>International Journal of Electronics</i> , 2018 , 105, 303-323	1.2	14
192	Model Predictive Control Using Subdivided Voltage Vectors for Current Ripple Reduction in an Indirect Matrix Converter 2018 ,		1
191	DC-link Ripple Reduction in a DPWM-Based Two-Level VSI. <i>Energies</i> , 2018 , 11, 3008	3.1	5
190	Reliability of Variable Speed Pumped-Storage Plant. <i>Electronics (Switzerland)</i> , 2018 , 7, 265	2.6	4
189	Indirect Matrix Converter for Permanent-Magnet-Synchronous-Motor Drives by Improved Torque Predictive Control 2018 ,		3
188	Robust DC-Link Voltage Tracking Controller with Variable Control Gain for Permanent Magnet Synchronous Generators. <i>Electronics (Switzerland)</i> , 2018 , 7, 339	2.6	2
187	Improved Over Modulation Strategy in DTC with Constant Frequency Torque Controller of PMSM for Quick Torque Control at Different Dynamic Conditions 2018 ,		1

186	DC-link Ripple Reduction in a DPWM-based Two-Level VSC 2018 ,		4
185	A Bidirectional Double Uneven Power Converter Based DCDC Converter for Solid-State Transformers. <i>Electronics (Switzerland)</i> , 2018 , 7, 334	2.6	1
184	Improved Model Predictive Control Method for Two Induction Motor Fed by Five-Leg Inverter System 2018 ,		1
183	Open-Switch Fault Diagnosis and Tolerant Control Methods for a Vienna Rectifier Using Bi-Directional Switches 2018 ,		2
182	Single-Phase Bidirectional On-Board Charger Using Starter Generator System in Hybrid Electric Vehicles. <i>Electronics (Switzerland)</i> , 2018 , 7, 287	2.6	4
181	Design and Control of Small DC-Link Capacitor-Based Three-Level Inverter with Neutral-Point Voltage Balancing. <i>Energies</i> , 2018 , 11, 1435	3.1	9
180	Robust optimal output voltage tracking algorithm for interleaved N-phase DC/DC boost converter with performance recovery property. <i>International Journal of Electronics</i> , 2018 , 105, 1673-1694	1.2	4
179	. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 1493-1506	7.2	24
178	Design of a CLC Filter for Flyback-Type Micro-inverters of Grid-Connected Photovoltaic Systems. <i>IETE Journal of Research</i> , 2017 , 63, 504-513	0.9	2
177	Model predictive control of a grid-connected inverter to reduce current ripples and computation loads 2017 ,		3
176	An optimized switching scheme for DC-link current ripple reduction in three-level T-type inverter 2017 ,		4
175	Modulation Technique for Single-Phase Transformerless Photovoltaic Inverters With Reactive Power Capability. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 6989-6999	8.9	52
174	. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 2580-2591	8.9	52
173	MPC-SVM method with subdivision strategy for current ripples reduction and neutral-point voltage balance in three-level inverter 2017 ,		3
172	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> , 2017 , 64, 1916-1928	8.9	42
171	A Fault Detection Method and a Tolerance Control in a Single-Phase Cascaded H-bridge Multilevel Inverter. <i>IFAC-PapersOnLine</i> , 2017 , 50, 7819-7823	0.7	2
170	Discontinuous PWM scheme for a modular multilevel converter with advanced switching losses reduction ability 2017 ,		2
169	An improved phase-shifted PWM method for a three-phase cascaded H-bridge multi-level inverter 2017 ,		7

168	Optimal phase shifted method to reduce current ripples for parallel grid-connected voltage source inverter under unequal DC-link voltages 2017 ,		2
167	Line current improvement of three-phase four-wire vienna rectifier using dead-beat control 2017 ,		5
166	A two-stage bidirectional DC/DC converter with SiC-MOSFET for vehicle-to-grid (V2G) application 2017 ,		5
165	Balanced Current Control Strategy for Current Source Rectifier Stage of Indirect Matrix Converter under Unbalanced Grid Voltage Conditions. <i>Energies</i> , 2017 , 10, 27	3.1	5
164	Simple Sensorless Control of Interior Permanent Magnet Synchronous Motor Using PLL Based on Extended EMF. <i>Journal of Electrical Engineering and Technology</i> , 2017 , 12, 711-717	1.4	3
163	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> , 2017 , 12, 1177-1186	1.4	5
162	Letters Current Quality Improvement for a Vienna Rectifier with High-Switching Frequency. <i>The Transactions of the Korean Institute of Power Electronics</i> , 2017 , 22, 181-184		4
161	Reliability Improvement Technology for Power Converters. <i>Power Systems</i> , 2017 ,	0.4	25
160	Adaptive output voltage tracking controller for uncertain DC/DC boost converter. <i>International Journal of Electronics</i> , 2016 , 103, 1002-1017	1.2	14
159	Open-Circuit Fault-Tolerant Control for Outer Switches of Three-Level Rectifiers in Wind Turbine Systems. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 3806-3815	7.2	35
158	. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 4075-4084	7.2	51
157	A Novel Carrier-Based PWM Method for Vienna Rectifier With a Variable Power Factor. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 3-12	8.9	61
156	. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 1692-1701	7.2	39
155	Fault detection and fault-tolerant operation of a five-phase induction motor driving system 2016 ,		1
154	Fault diagnosis method for power transistors in switched reluctance machine drive system 2016 ,		1
153	Optimal design of a 1kW switched reluctance generator for wind power systems using a genetic algorithm. <i>IET Electric Power Applications</i> , 2016 , 10, 807-817	1.8	18
152	An optimal control method of clamp switch for ZVS bi-directional DC-DC converter 2016 ,		2
151	A carrier-based PWM with synchronous switching technique for a vienna rectifier 2016 ,		2

150	Control strategy of the mono converter dual parallel surface-mounted permanent magnet synchronous generator in wind power generation system 2016,		1
149	A fault detection method in cascaded H-bridge multilevel inverter 2016,		4
148	MPC-SVM method for Vienna rectifier with PMSG used in Wind Turbine Systems 2016,		11
147	. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 1931-1941	7.2	62
146	Detecting Open-Switch Faults: Using Asymmetric Zero-Voltage Switching States. <i>IEEE Industry Applications Magazine</i> , 2016 , 22, 27-37	0.6	33
145	Virtual-Flux-Based Predictive Direct Power Control of Three-Phase PWM Rectifiers With Fast Dynamic Response. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 3348-3359	7.2	69
144	Bearing Fault Detection of IPMSMs using Zoom FFT. <i>Journal of Electrical Engineering and Technology</i> , 2016 , 11, 1235-1241	1.4	7
143	Improved Transition Method for Sensorless Operation of Interior Permanent Magnet Synchronous Motor Drives. <i>Transactions of the Korean Institute of Electrical Engineers</i> , 2016 , 65, 1362-1368	1.5	1
142	Fault-Tolerant Strategy to Control a Reverse Matrix Converter for Open-Switch Faults in the Rectifier Stage. <i>Journal of Power Electronics</i> , 2016 , 16, 57-65	0.9	5
141	Active Frequency Drift Method for Islanding Detection Applied to Micro-inverter with Uncontrollable Reactive Power. <i>Journal of Power Electronics</i> , 2016 , 16, 1918-1927	0.9	4
140	Input-Constrained Current Controller for DC/DC Boost Converter. <i>Journal of Power Electronics</i> , 2016 , 16, 2016-2023	0.9	1
139	Open Fault Detection and Tolerant Control for a Five Phase Inverter Driving System. <i>Energies</i> , 2016 , 9, 355	3.1	7
138	Predictive Control Algorithm Including Conduction-Mode Detection for PFC Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 5900-5911	8.9	33
137	2016,		1
136	A Modified Level-Shifted PWM Strategy for Fault-Tolerant Cascaded Multilevel Inverters With Improved Power Distribution. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 7264-7274	8.9	74
135	Discontinuous PWM for low switching losses in indirect matrix converter drives 2016,		3
134	Novel Discontinuous PWM Method of a Three-Level Inverter for Neutral-Point Voltage Ripple Reduction. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 3344-3354	8.9	68
133	Five-phase five-level open-winding/star-winding inverter drive for low-voltage/high-current applications 2016,		3

132	Simple rotor position estimation for sensorless control of IPMSM using PLL based on EEMF 2016,		3
131	Comparison of Tolerance Controls for Open-Switch Fault in a Grid-Connected T-Type Rectifier. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 5810-5820	7.2	35
130	Robust Feedback-Linearizing Output Voltage Regulator for DC/DC Boost Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 7127-7135	8.9	27
129	Low-cost and energy-efficient asymmetric nickel electrode for alkaline water electrolysis. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 10720-10725	6.7	22
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