

Seung-Ki Sul

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.

331
papers

9,172
citations

54
h-index

87
g-index

413
ext. papers

11,802
ext. citations

5.3
avg, IF

6.52
L-index

#	Paper	IF	Citations
331	Dynamic Overmodulation Scheme for Improved Current Regulation in PMSM Drives. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	3
330	Parallel Operation of Permanent Magnet Generators and Diode Rectifiers in Maritime DC Power System Considering Fuel Economy. <i>IEEE Transactions on Transportation Electrification</i> , 2022 , 1-1	7.6	2
329	Normalization of Capacitor-Discharge I2t by Short-Circuit Fault in VSC-Based DC System. <i>IEEE Transactions on Power Electronics</i> , 2022 , 37, 843-854	7.2	1
328	High-Fidelity Induction Motor Simulation Model Based on Finite Element Analysis. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	
327	Stator Winding Temperature and Magnet Temperature Estimation of IPMSM Based on High-Frequency Voltage Signal Injection. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	
326	MTPA Tracking Control of Sensorless IPMSM Based on Square-Wave Voltage Signal Injection. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	1
325	Online MTPA Operation of IPMSM Based on Dual-Loop Control in Polar Coordinates. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	4
324	Permanent Magnet Temperature Estimation in a Mass-Produced Traction Motor for an Electric Vehicle. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 1-1	7.6	2
323	Stability Analysis of PI-Controller-Type Position Estimator for Sensorless PMSM Drives in Flux Weakening Region 2021 ,		3
322	Temperature Estimation of IPMSM by Using Fundamental Reactive Energy Considering Variation of Inductances. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 5771-5783	7.2	11
321	Time-Optimal Voltage Vector Transition Scheme for Six-Step Operation of PMSM. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 5724-5735	7.2	5
320	Magnet Temperature Estimation of Traction Motor in Standstill With Considering Spatial Harmonics. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 10546-10557	8.9	4
319	Design of Frequency-Adaptive Flux Observer in PMSM Drives Robust to Discretization Error. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	5
318	Torque Ripple-Minimizing Control of IPMSM With Optimized Current Trajectory. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 3852-3862	4.3	2
317	Analysis of Instability in Torque Control of Sensorless PMSM Drives in Flux Weakening Region. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 10815-10826	7.2	7
316	Inverter Nonlinearity Compensation Through Deadtime Effect Estimation. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 10684-10694	7.2	14
315	DC Bus Voltage Regulation Strategy in Maritime DC Power System for Minimized Converter Loss. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 13225-13233	7.2	0

314	Identification of IPMSM Flux-Linkage Map for High-Accuracy Simulation of IPMSM Drives. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 14257-14266	7.2	6
313	Resonance Suppression Method for Grid-Connected Converter With LCL Filter Under Discontinuous PWM. <i>IEEE Access</i> , 2021 , 9, 124519-124529	3.5	1
312	Real-time Torque Control of IPMSM under Flux Variations. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 1-1	5.6	7
311	Stator Resistance Estimation Using DC Injection With Reduced Torque Ripple in Induction Motor Sensorless Drives. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 3744-3754	4.3	7
310	Signal-Injection Sensorless Control With Tilted Current Reference for Heavily Saturated IPMSMs. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 12100-12109	7.2	17
309	Maritime DC Power System With Generation Topology Consisting of Combination of Permanent Magnet Generator and Diode Rectifier. <i>IEEE Transactions on Transportation Electrification</i> , 2020 , 6, 869-880	7.6	6
308	Analysis of Current Flowing Through Disabled Converters in Parallel AC/DC Power Conversion System. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 11625-11633	7.2	
307	Stator Winding Temperature Estimation of IPMSM Based on a High-frequency Voltage Signal Injection 2020 ,		4
306	Simple Overmodulation Scheme for Improved Dynamic Performance of IPMSM 2020 ,		4
305	Recent Advances in Sensorless Drive of Interior Permanent-Magnet Motor Based on Pulsating Signal Injection. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 1-1	5.6	7
304	Dynamic Overmodulation for Improved Current Regulation of PMSM 2020 ,		4
303	A Novel Filter Structure to Suppress Circulating Currents Based on the Sequence of Sideband Harmonics for High-Power Interleaved Motor-Drive Systems. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 853-866	7.2	9
302	Distortion-Minimizing Flux Observer for IPMSM Based on Frequency-Adaptive Observers. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 2077-2087	7.2	18
301	Balancing of Submodule Capacitor Voltage of Hybrid Modular Multilevel Converter Under DC-Bus Voltage Variation of HVDC System. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 10458-10470	7.2	24
300	Online MTPA Control of IPMSM Based on Robust Numerical Optimization Technique. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 3736-3746	4.3	24
299	Control Strategy of Single-Phase Active Front-End Cascaded H-Bridge Under Cell Fault Condition. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 4780-4793	7.2	6
298	A Modular Multilevel Converter with a Zigzag Transformer for Bipolar MVDC Distribution Systems. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 1038-1043	7.2	18
297	Overvoltage Suppressing Snubber Circuit for Solid State Circuit Breaker considering System Inductances 2019 ,		6

296	Magnet Temperature Estimation of IPMSM by Using Reactive Energy 2019 ,		2
295	Design of Full-Order Flux Observer for Induction Motor Drive Robust to Rotor Time Constant Variation 2019 ,		2
294	Online MTPA Operation of IPMSM Based on Dual-Loop Control in Polar Coordinates 2019 ,		2
293	Torque Ripple Reduction in Stator Resistance Estimation using DC Current Injection for Induction Motor Sensorless Drives 2019 ,		1
292	Analysis of Position Control Stability Affected by Non-ideal Characteristics of IPMSM in Signal-Injection Sensorless Control 2019 ,		2
291	Discrete-Time Voltage Controller for Voltage Source Converters With LC Filter Based on State-Space Models. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 529-540	4-3	23
290	Analysis on Position Estimation Error in Position-Sensorless Operation of IPMSM Using Pulsating Square Wave Signal Injection. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 458-470	4-3	34
289	Non-Invasive Magnet Temperature Estimation of IPMSM Based on High-Frequency Inductance With a Pulsating High-Frequency Voltage Signal Injection. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 3076-3086	4-3	14
288	Control Strategy of DC-Link Voltage for Single-Phase Back-to-Back Cascaded H-Bridge Inverter for MV Drive With Interfacing Transformer Having Tertiary Winding. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 8190-8200	7-2	4
287	Extending Operational Limit of IPMSM in Signal-Injection Sensorless Control by Manipulation of Convergence Point. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 1574-1586	4-3	26
286	Decomposed Current Controller for a Paralleled Inverter With a Small Interfaced Inductor. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 9316-9328	7-2	6
285	Minimum Torque Ripple Pulse Width Modulation With Reduced Switching Frequency for Medium-Voltage Motor Drive. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 3315-3325	4-3	13
284	Model-Based Sensorless Control of an IPMSM With Enhanced Robustness Against Load Disturbances Based on Position and Speed Estimator Using a Speed Error. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 1448-1459	4-3	41
283	Pulsewidth Modulation Strategy in Double-Delta Sourced Winding. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 2550-2559	4-3	2
282	A Comprehensive AC-Side Single-Line-to-Ground Fault Ride Through Strategy of an MMC-Based HVDC System. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2018 , 6, 1021-1031	5-6	32
281	DC Capacitor Voltage Balancing Control for Delta-Connected Cascaded H-Bridge STATCOM Considering Unbalanced Grid and Load Conditions. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 4726-4735 ³⁵	7-2	35
280	A Damping Scheme for Switching Ringing of Full SiC MOSFET by Air Core PCB Circuit. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 4605-4615	7-2	21
279	DC Power System for Fishing Boat 2018 ,		6

278	DC-Link Voltage Design of High-Bandwidth Motor Emulator for Interior Permanent-Magnet Synchronous Motors 2018 ,		13
277	PWM Strategy for 3Phase Active Front End Cascaded 5 Level NPC H-Bridge 2018 ,		2
276	Distortion-Minimizing Flux Observer for IPMSM Based on Frequency-Adaptive Observers 2018 ,		2
275	Voltage Reference Modification Scheme for Resonance Suppression in LCL-filtered Inverters with Discontinuous PWM method 2018 ,		3
274	Non-Invasive Magnet Temperature Estimation in IPMSM by High Frequency Pulsating Sinusoidal Voltage Injection 2018 ,		7
273	PWM Strategy for Parallel Operation of Three Phase Converters Tied to Grid 2018 ,		2
272	Fixed Current Angle Operation Strategy in Low-Speed Sensorless Drive for Improved Torque Capability over Critical Point 2018 ,		3
271	Back-EMF Based Sensorless Control of IPMSM with Enhanced Torque Accuracy Against Parameter Variation 2018 ,		9
270	Experimental Identification of IPMSM Flux-Linkage Considering Spatial Harmonics for High-Accuracy Simulation of IPMSM Drives 2018 ,		5
269	Design of Wireless Temperature Monitoring System for Measurement of Magnet Temperature of IPMSM 2018 ,		10
268	Online MTPA Control of IPMSM for Automotive Applications Based on Robust Numerical Optimization Technique 2018 ,		6
267	Stability-Oriented Design of Frequency Drift Anti-Islanding and Phase-Locked Loop Under Weak Grid. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2017 , 5, 760-774	5.6	13
266	Parallel Operation of Inverters With Isolated DC Link for Minimizing Sharing Inductor. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 4450-4459	4.3	7
265	Full torque-range low-speed sensorless drive for heavily saturated IPMSMs by manipulation of convergence point 2017 ,		14
264	Sensorless control of IPMSM for last 10 years and next 5 years. <i>CES Transactions on Electrical Machines and Systems</i> , 2017 , 1, 91-99	2.3	52
263	Frequency-Adaptive Observer to Extract AC-Coupled Signals for Grid Synchronization. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 273-282	4.3	13
262	Reduction of Injection Voltage in Signal Injection Sensorless Drives Using a Capacitor-Integrated Inverter. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 6261-6274	7.2	21
261	A New Topology of Multilevel VSC Converter for a Hybrid HVDC Transmission System. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 4199-4209	7.2	81

260	Analysis and Compensation of Inverter Nonlinearity for Three-Level T-Type Inverters. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 4970-4980	7.2	32
259	Analysis on the position estimation error in position-sensorless operation using pulsating square wave signal injection 2017 ,		2
258	Compensation of position estimation error for precise position-sensorless control of IPMSM based on high-frequency pulsating voltage injection 2017 ,		15
257	A design of circulating current controller for paralleled inverter with non-isolated dc-link 2017 ,		6
256	A novel filter structure to suppress harmonic currents based on the sequence of sideband harmonics 2017 ,		3
255	Analysis and mitigation of AC coupling effects on overhead line of modular multilevel converter (MMC) based HVDC transmission system 2017 ,		3
254	Asymmetric mixed modular multilevel converter topology in bipolar HVDC transmission systems 2017 ,		2
253	Shaping of PWM Converter Admittance for Stabilizing Local Electric Power Systems. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2016 , 4, 1452-1461	5.6	6
252	Analysis and compensation of inverter nonlinearity for three-level T-type inverters 2016 ,		1
251	A Comprehensive DC Short-Circuit Fault Ride Through Strategy of Hybrid Modular Multilevel Converters (MMCs) for Overhead Line Transmission. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 7780-7796	7.2	111
250	Suppression of Injection Voltage Disturbance for High-Frequency Square-Wave Injection Sensorless Drive With Regulation of Induced High-Frequency Current Ripple. <i>IEEE Transactions on Industry Applications</i> , 2016 , 52, 302-312	4.3	68
249	Linear Overmodulation Strategy for Current Control in Photovoltaic Inverter. <i>IEEE Transactions on Industry Applications</i> , 2016 , 52, 322-331	4.3	10
248	Control strategy of single phase back-to-back converter for medium voltage drive under cell fault condition 2016 ,		2
247	DC capacitor voltage balancing control for delta-connected cascaded h-bridge STATCOM considering the unbalanced grid and load conditions 2016 ,		2
246	Pulse-width modulation strategy in double-delta sourced winding 2016 ,		1
245	Seamless transfer strategy considering power balance in parallel operation 2016 ,		1
244	New maximum power extraction algorithm for single stage solar water pump system working effectively for dynamically changing conditions 2016 ,		4
243	Suppression of Circulating Current in parallel operation of three-level converters 2016 ,		20

242	A new topology of multilevel VSC converter for hybrid HVDC transmission system 2016,		13
241	Modeling and Controller Design for a Series-Connected Output Universal Link Converter. <i>IEEE Transactions on Industry Applications</i> , 2015 , 51, 4017-4027	4-3	2
240	Common-Mode Voltage Reduction of Three-Level Four-Leg PWM Converter. <i>IEEE Transactions on Industry Applications</i> , 2015 , 51, 4006-4016	4-3	37
239	Multi-level operation of triple two-level PWM converters 2015,		5
238	Principles and dynamics of natural arm capacitor voltage balancing of a direct modulated modular multilevel converter 2015,		4
237	Frequency adaptive observer to extract ac-coupled signals for grid synchronization 2015,		1
236	Reduction of injection voltage in signal injection sensorless drives using capacitor-integrated inverter 2015,		4
235	Energy-saving method of parallel mechanism by redundant actuation. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2015 , 2, 345-351	3-8	14
234	Design of IPMSM with eccentric rotor and search coils for absolute position sensorless drive 2015,		3
233	Comparison of rotor position estimation performance in fundamental-model-based sensorless control of PMSM 2015,		21
232	Improved Design of IPMSM for Sensorless Drive With Absolute Rotor Position Estimation Capability. <i>IEEE Transactions on Industry Applications</i> , 2015 , 1-1	4-3	1
231	Double-delta sourced winding for dual winding induction machine 2015,		4
230	Dead-time compensation based on pole voltage measurement 2015,		6
229	Sensorless Control Method for PMSM Based on Frequency-Adaptive Disturbance Observer. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2014 , 2, 143-151	5-6	61
228	Reduced sampling rate for cell voltage sensing in high-level Modular Multilevel Converter 2014,		3
227	Non-iterative LCL filter design for three-phase two-level voltage-source PWM converters 2014,		2
226	Control of Three-Phase Inverter for AC Motor Drive With Small DC-Link Capacitor Fed by Single-Phase AC Source. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 1074-1081	4-3	57
225	Six-Step Operation of PMSM With Instantaneous Current Control. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 2614-2625	4-3	116

224	A comprehensive cell capacitor energy control strategy of a modular multilevel converter (MMC) without a stiff DC bus voltage source 2014 ,		30
223	Principle, control and comparison of modular multilevel converters (MMCs) with DC short circuit fault ride-through capability 2014 ,		24
222	Improved design of IPMSM for sensorless drive with absolute rotor position estimation capability 2014 ,		2
221	Linear over-modulation strategy for current control in photovoltaic inverter 2014 ,		2
220	Compensation of Current Measurement Error for Current-Controlled PMSM Drives. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 3365-3373	4-3	57
219	A switching frequency reduction and a mitigation of voltage fluctuation of modular multilevel converter for HVDC 2014 ,		6
218	Common-mode voltage reduction of three level four leg PWM converter 2014 ,		4
217	Suppression of injection voltage disturbance for High Frequency square-wave injection sensorless drive with regulation of induced High Frequency current ripple 2014 ,		4
216	A cell capacitor energy balancing control of Modular Multilevel Converter considering the unbalanced AC grid conditions 2014 ,		9
215	Control of hybrid HVDC transmission system with LCC and FB-MMC 2014 ,		20
214	Phase locked loop based on an observer for grid synchronization 2013 ,		4
213	Forward fly-back voltage balancing circuit for series connected super capacitors using digital control 2013 ,		3
212	Consideration of active-front-end rectifier for electric propulsion navy ship 2013 ,		11
211	Maximum Torque per Ampere (MTPA) Control of an IPM Machine Based on Signal Injection Considering Inductance Saturation. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 488-497	7.2	159
210	Asymmetric Control of DC-Link Voltages for Separate MPPTs in Three-Level Inverters. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 2760-2769	7.2	75
209	A Current Controller Design for Current Source Inverter-Fed AC Machine Drive System. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 1366-1381	7.2	34
208	Sensorless control of synchronous machine with an inverter integrated rotor 2013 ,		1
207	Control strategy for improved dynamic performance of variable-speed drives with the Modular Multilevel Converter 2013 ,		17

206	A stator turn-fault detection method for inverter-fed IPMSM with high-frequency current injection 2013,		3
205	A Nine-Phase Permanent-Magnet Motor Drive System for an Ultrahigh-Speed Elevator. <i>IEEE Transactions on Industry Applications</i> , 2012 , 48, 987-995	4.3	130
204	A Novel Method Utilizing Trapezoidal Voltage to Compensate for Inverter Nonlinearity. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 4837-4846	7.2	89
203	Maximum power point tracking for single stage grid-connected PV system under partial shading conditions 2012,		3
202	A New Universal Isolated Converter for Grid Connection. <i>IEEE Transactions on Industry Applications</i> , 2012 , 48, 685-696	4.3	17
201	Control of three phase inverter for AC motor drive with small DC-link capacitor fed by single phase AC source 2012,		8
200	Six-step operation of PMSM with instantaneous current control 2012,		3
199	LCL filter design for grid-connected voltage-source converters in high power systems 2012,		6
198	Condition monitoring of DC-link capacitors in drive system for electric vehicles 2012,		9
197	Control of the Modular Multilevel Converter for variable-speed drives 2012,		18
196	Anti-islanding detection method using Negative Sequence Voltage 2012,		7
195	Compensation of current measurement error for current-controlled PMSM drives 2012,		6
194	Voltage Feedback Current Control Scheme for Improved Transient Performance of Permanent Magnet Synchronous Machine Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 3373-3382	8.9	83
193	Layout of IGBT-based Current Source Converter for low stray inductance 2012,		1
192	Compensation of inverter nonlinearity based on trapezoidal voltage 2012,		1
191	PWM Switching Frequency Signal Injection Sensorless Method in IPMSM. <i>IEEE Transactions on Industry Applications</i> , 2012 , 48, 1576-1587	4.3	122
190	Initial voltage angle detection method of a PWM converter without any grid voltage measurement using conduction state of diodes for smooth starting 2012,		4
189	Low Voltage Ride Through(LVRT) control strategy of grid-connected variable speed Wind Turbine Generator System 2011,		9

188	A dual-phase-shift control strategy for dual-active-bridge DC-DC converter in wide voltage range 2011,		53
187	. <i>IEEE Transactions on Industry Applications</i> , 2011 , 47, 1361-1370	4-3	239
186	System configuration and control strategy using FPGA for Hybrid vehicle power Control Unit 2011,		3
185	Three years of industrial experience with sensorless ipmsm drive based on high frequency injection method 2011,		19
184	PWM switching frequency signal injection sensorless method in IPMSM 2011,		3
183	A current controller design for current source inverter-fed PMSM drive system 2011,		7
182	LCL filter design and control for grid-connected PWM converter 2011,		8
181	Voltage injection method for boundary expansion of output voltages in three shunt sensing PWM inverters 2011,		4
180	Analysis of high-frequency power conversion for series-connected universal link AC/DC power converter 2011,		2
179	A novel method to compensate non-linearity of inverter in sensorless operation of PMSM 2011,		4
178	Design of IPMSM having high power density for position sensorless operation with high-frequency signal injection and the method of calculating inductance profile 2011,		4
177	An enhanced sensorless control method for PMSM in rapid accelerating operation 2010,		4
176	An AC/DC power conversion based on Series-connected Universal Link converter 2010,		5
175	A separate double-winding 12-phase brushless DC motor drive fed from individual H-bridge inverters 2010,		4
174	Application of a Disturbance Observer for a Relative Position Control System. <i>IEEE Transactions on Industry Applications</i> , 2010 , 46, 849-856	4-3	19
173	Power Control Algorithm for Hybrid Excavator With Supercapacitor. <i>IEEE Transactions on Industry Applications</i> , 2010 , 46, 1447-1455	4-3	71
172	Parameter independent maximum torque per ampere (MTPA) control of IPM machine based on signal injection 2010,		22
171	System configuration and control strategy for compound type hybrid excavator with ultra capacitor 2010,		2

170	A new circuit design and control to reduce input harmonic current for a three-phase ac machine drive system having a very small dc-link capacitor 2010 ,		27
169	2010 ,		36
168	Input filter analysis and resonance suppression control for electrolytic capacitor-less inverter 2009 ,		4
167	A power flow control strategy for optimal fuel efficiency of a variable speed engine-generator based series hybrid electric vehicle 2009 ,		2
166	A Novel Approach to Reduce Line Harmonic Current for a Three-phase Diode Rectifier-fed Electrolytic Capacitor-less Inverter 2009 ,		18
165	Novel Speed and Rotor Position Estimation Strategy Using a Dual Observer for Low-Resolution Position Sensors. <i>IEEE Transactions on Power Electronics</i> , 2009 , 24, 2897-2906	7.2	58
164	Implementation of Grid-connected Single-phase Inverter Based on FPGA 2009 ,		11
163	A Protection Scheme Against Voltage Sags for Electrolytic Capacitorless AC Drives. <i>IEEE Transactions on Industry Applications</i> , 2009 , 45, 186-193	4.3	12
162	Suppression of Thrust Loss for the Maximum Thrust Operation in the Electric Propulsion Ship. <i>IEEE Transactions on Industry Applications</i> , 2009 , 45, 756-762	4.3	7
161	Design and Control of an Axial-Flux Machine for a Wide Flux-Weakening Operation Region. <i>IEEE Transactions on Industry Applications</i> , 2009 , 45, 1258-1266	4.3	42
160	Design of Flux Observer Robust to Interior Permanent-Magnet Synchronous Motor Flux Variation. <i>IEEE Transactions on Industry Applications</i> , 2009 , 45, 1670-1677	4.3	50
159	Variable-Speed Engine Generator With Supercapacitor: Isolated Power Generation System and Fuel Efficiency. <i>IEEE Transactions on Industry Applications</i> , 2009 , 45, 2130-2135	4.3	47
158	Analysis on output LC filters for PWM inverters 2009 ,		3
157	Novel Flux-Weakening Control of an IPMSM for Quasi-Six-Step Operation. <i>IEEE Transactions on Industry Applications</i> , 2008 , 44, 1722-1731	4.3	118
156	Advantages of Inset PM Machines for Zero-Speed Sensorless Position Detection. <i>IEEE Transactions on Industry Applications</i> , 2008 , 44, 1190-1198	4.3	54
155	Control of an Open-Winding Machine in a Grid-Connected Distributed Generation System. <i>IEEE Transactions on Industry Applications</i> , 2008 , 44, 1259-1267	4.3	37
154	Design of Speed Control Loop of A Variable Speed Diesel Engine Generator by Electric Governor 2008 ,		17
153	Design of Flux Observer Robust to Parameter Variation of Interior Permanent Magnet Synchronous Motor 2008 ,		7

152	FPGA-based motion controller with a high bandwidth current regulator. <i>Power Electronics Specialist Conference (PESC), IEEE, 2008,</i>		4
151	System Integration and Power-Flow Management for a Series Hybrid Electric Vehicle Using Supercapacitors and Batteries. <i>IEEE Transactions on Industry Applications, 2008, 44, 108-114</i>	4-3	155
150	Design of a Variable Speed Compressor Drive System for Air-Conditioner without Electrolytic Capacitor. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007,</i>		6
149	Carrier-based Modulation Method for Matrix Converter with Input Power Factor Control and under Unbalanced Input Voltage Conditions. <i>IEEE Applied Power Electronics Conference and Exposition, 2007,</i>		12
148	Sensorless Operation of a PWM Rectifier for a Distributed Generation. <i>IEEE Transactions on Power Electronics, 2007, 22, 1014-1018</i>	7-2	37
147	Design of a Current Regulator with Extended Bandwidth for Servo Motor Drive 2007,		10
146	Dual Observers for the Disturbance Rejection of a Motion Control System. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007,</i>		7
145	Torque Control Strategy of an IPMSM Considering the Flux Variation of the Permanent Magnet. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007,</i>		4
144	PWM Method of a Three-Level Neutral-Point-Clamped Converter under Neutral Point Imbalance Condition. <i>IEEE Applied Power Electronics Conference and Exposition, 2007,</i>		1
143	Novel Flux-Weakening Control of an IPMSM for Quasi Six-Step Operation. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007,</i>		7
142	System Integration and Power Flow Management for a Series Hybrid Electric Vehicle using Super-capacitors and Batteries. <i>IEEE Applied Power Electronics Conference and Exposition, 2007,</i>		4
141	New flux weakening control for surface mounted permanent magnet synchronous machine using gradient descent method 2007,		2
140	Torque Control Strategy of an IPMSM Considering the Flux Variation of the Permanent Magnet. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007,</i>		14
139	Comparison of PM Motor Structures and Sensorless Control Techniques for Zero-Speed Rotor Position Detection. <i>IEEE Transactions on Power Electronics, 2007, 22, 2466-2475</i>	7-2	128
138	Flux Weakening Control of an Open Winding Machine with Isolated Dual Inverters. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007,</i>		9
137	Suppression of the Thrust Loss for the Maximum Thrust Operation in the Electric Propulsion Ship 2007,		4
136	Advantages of inset PM machines for zero-speed sensorless position detection 2006,		8
135	A Protection of the Electrolytic Capacitor-less Drive System against the Input Grid Interruption. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2006,</i>		2

134	Control of an Open Winding Machine in a Grid-Connected Distributed Generation System. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2006,</i>		4
133	Implementation and Sensorless Vector-Control Design and Tuning Strategy for SMPM Machines in Fan-Type Applications 2006,		13
132	Generalization of active filters for EMI reduction and harmonics compensation. <i>IEEE Transactions on Industry Applications, 2006, 42, 545-551</i>	4-3	62
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65	AC to AC power conversion based on matrix converter topology with unidirectional switches		2
64	An instantaneous speed observer for low speed control of AC machine		8
63	Comparison of PM motor structures and sensorless control techniques for zero-speed rotor position detection		17

62	Sensorless vector control of super high speed turbo compressor	1
61	Control of Rubber Tyred Gantry Crane with Energy Storage Based on Supercapacitor Bank	7
60	Novel anti-windup of a current regulator of a surface-mounted permanent-magnet motor for flux-weakening control	4
59	Field weakening control of interior permanent magnet machine using improved current interpolation technique	21
58	Practical design criteria of interior permanent magnet synchronous motor for 42V integrated starter-generator	12
57	A new vision-sensorless anti-sway control system for container cranes	2
56	Sensorless position control of active magnetic bearings based on high frequency signal injection with digital signal processing	6
55	Novel topology of a line interactive UPS using PQR instantaneous power theory	4
54	A new starting method of BLDC motors without position sensor	1
53	Controller design for dynamic voltage restorer with harmonics compensation function	2
52	Synchronous frame current control of multi-phase synchronous motor - part II asymmetric fault condition due to open phases	7
51	Fault detection and fault tolerant control of interior permanent magnet motor drive system for electric vehicle	4
50	New field weakening technique for high saliency interior permanent magnet motor	30
49	Analysis of permanent magnet machine for sensorless control based on high frequency signal injection	4
48	Sensorless position control of active magnetic bearings based on high frequency signal injection method	8
47	A design consideration of output filters for dynamic voltage restorers	7
46	Reference wave generation in dynamic voltage restorers by use of PQR power theory	1
45	A novel control method for the compensation voltages in dynamic voltage restorers	1

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42	A PWM strategy for four-leg voltage source converters and applications to a novel line interactive UPS in a three-phase four-wire system	4
41	Novel current control strategy for maximum tracking operation under saturated voltage condition	1
40	Analysis and design of a decoupling current controller for AC machines: a unified transfer-matrix approach	5
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38	A compensation method for time delay of full digital synchronous frame current regulator of PWM AC drives	3
37	A new anti-sway control scheme for trolley crane system	2
36	Dynamic load simulator for high-speed elevator system	1
35	Sensorless operation of permanent magnet motor using direct voltage sensing circuit	5
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33	High precision position control of linear permanent magnet synchronous motor for surface mount device placement system	1
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29	A new sensorless thrust control of linear induction motor	1
28	Sensorless position control and initial position estimation of an interior permanent magnet motor	1
27	A new tension controller for continuous strip processing line	2

26	On-line estimation of IGBT junction temperature using on-state voltage drop	8
25	Torque ripple minimization strategy for direct torque control of production motor	3
24	Operation analysis and new current control of parallel connected dual converter system without interphase reactors	2
23	Acceleration feedback control strategy for improving riding quality of elevator system	2
22	A new configuration of drive system for high speed gearless elevator	3
21	Initial rotor position detection of PMSM at standstill without rotational transducer	18
20	Automatic commissioning for vector controlled AC motors using Walsh functions	3
19	Common mode voltage reduction method modifying the distribution of zero voltage vector in PWM converter/inverter system	2
18	Direct torque control of induction machine with variable amplitude control of flux and torque hysteresis bands	22
17	A new phase detecting method for power conversion systems considering distorted conditions in power system	37
16	Electro-mechanical re-adhesion control simulator for inverter-driven railway electric vehicle	2
15	New current control concept: minimum time current control in induction machine drive	2
14	Speed control of interior permanent magnet synchronous motor drive for flux weakening operation	4
13	A new generator static excitation system using boost-buck chopper	3
12	Design of fast response current controller using d-q axis cross-coupling	1
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10	Advanced control strategy of parallel hybrid low emission electric vehicle	6
9	Torque steering control of 4-wheel drive electric vehicle	10

8	Overmodulation strategy for high performance torque control	2
7	Implementation of field oriented induction machine considering iron losses	7
6	A novel inertia identification method for speed control of electric machine	9
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