

Seung-Ki Sul

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331
papers

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h-index

87
g-index

413
ext. papers

11,802
ext. citations

5.3
avg, IF

6.52
L-index

#	Paper	IF	Citations
331	Inverter output voltage synthesis using novel dead time compensation. <i>IEEE Transactions on Power Electronics</i> , 1996 , 11, 221-227	7.2	303
330	Sensorless drive of surface-mounted permanent-magnet motor by high-frequency signal injection based on magnetic saliency. <i>IEEE Transactions on Industry Applications</i> , 2003 , 39, 1031-1039	4.3	288
329	New direct torque control of induction motor for minimum torque ripple and constant switching frequency. <i>IEEE Transactions on Industry Applications</i> , 1999 , 35, 1076-1082	4.3	272
328	Speed control of interior permanent magnet synchronous motor drive for the flux weakening operation. <i>IEEE Transactions on Industry Applications</i> , 1997 , 33, 43-48	4.3	259
327	. <i>IEEE Transactions on Industry Applications</i> , 2011 , 47, 1361-1370	4.3	239
326	Unified voltage modulation technique for real-time three-phase power conversion. <i>IEEE Transactions on Industry Applications</i> , 1998 , 34, 374-380	4.3	196
325	Sensorless field-orientation control of an induction machine by high-frequency signal injection. <i>IEEE Transactions on Industry Applications</i> , 1999 , 35, 45-51	4.3	185
324	Analysis of multiphase space vector pulse-width modulation based on multiple d-q spaces concept. <i>IEEE Transactions on Power Electronics</i> , 2005 , 20, 1364-1371	7.2	179
323	A compensation method for time delay of full-digital synchronous frame current regulator of PWM AC drives. <i>IEEE Transactions on Industry Applications</i> , 2003 , 39, 802-810	4.3	178
322	Analysis of permanent-magnet machine for sensorless control based on high-frequency signal injection. <i>IEEE Transactions on Industry Applications</i> , 2004 , 40, 1595-1604	4.3	171
321	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
320	Initial rotor position estimation of an interior permanent-magnet synchronous machine using carrier-frequency injection methods. <i>IEEE Transactions on Industry Applications</i> , 2005 , 41, 38-45	4.3	157
319	System Integration and Power-Flow Management for a Series Hybrid Electric Vehicle Using Supercapacitors and Batteries. <i>IEEE Transactions on Industry Applications</i> , 2008 , 44, 108-114	4.3	155
318	A carrier-based PWM method for three-phase four-leg voltage source converters. <i>IEEE Transactions on Power Electronics</i> , 2004 , 19, 66-75	7.2	148
317	Fault detection and fault-tolerant control of interior permanent-magnet motor drive system for electric vehicle. <i>IEEE Transactions on Industry Applications</i> , 2005 , 41, 46-51	4.3	144
316	Sensorless rotor position estimation of an interior permanent-magnet motor from initial states. <i>IEEE Transactions on Industry Applications</i> , 2003 , 39, 761-767	4.3	144
315	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

314	Comparison of PM Motor Structures and Sensorless Control Techniques for Zero-Speed Rotor Position Detection. <i>IEEE Transactions on Power Electronics</i> , 2007 , 22, 2466-2475	7.2	128
313	PWM Switching Frequency Signal Injection Sensorless Method in IPMSM. <i>IEEE Transactions on Industry Applications</i> , 2012 , 48, 1576-1587	4.3	122
312	Fuzzy-logic-based torque control strategy for parallel-type hybrid electric vehicle. <i>IEEE Transactions on Industrial Electronics</i> , 1998 , 45, 625-632	8.9	119
311	Analysis and compensation of current measurement error in vector-controlled AC motor drives. <i>IEEE Transactions on Industry Applications</i> , 1998 , 34, 340-345	4.3	118
310	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
309	Six-Step Operation of PMSM With Instantaneous Current Control. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 2614-2625	4.3	116
308	Carrier-Based Modulation Technique for Matrix Converter. <i>IEEE Transactions on Power Electronics</i> , 2006 , 21, 1691-1703	7.2	116
307	A new PWM strategy for common-mode voltage reduction in neutral-point-clamped inverter-fed AC motor drives. <i>IEEE Transactions on Industry Applications</i> , 2001 , 37, 1840-1845	4.3	115
306	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
305	Kalman filter and LQ based speed controller for torsional vibration suppression in a 2-mass motor drive system. <i>IEEE Transactions on Industrial Electronics</i> , 1995 , 42, 564-571	8.9	109
304	Synchronous-frame current control of multiphase synchronous motor under asymmetric fault condition due to open phases. <i>IEEE Transactions on Industry Applications</i> , 2006 , 42, 1062-1070	4.3	108
303	Voltage control strategy for maximum torque operation of an induction machine in the field-weakening region. <i>IEEE Transactions on Industrial Electronics</i> , 1997 , 44, 512-518	8.9	92
302	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
301	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
300	A new motor speed estimator using Kalman filter in low-speed range. <i>IEEE Transactions on Industrial Electronics</i> , 1996 , 43, 498-504	8.9	82
299	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
298	A new active common-mode EMI filter for PWM inverter. <i>IEEE Transactions on Power Electronics</i> , 2003 , 18, 1309-1314	7.2	81
297	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

296	New approach for high-performance PMSM drives without rotational position sensors. <i>IEEE Transactions on Power Electronics</i> , 1997 , 12, 904-911	7.2	74
295	Power Control Algorithm for Hybrid Excavator With Supercapacitor. <i>IEEE Transactions on Industry Applications</i> , 2010 , 46, 1447-1455	4.3	71
294	A New Starting Method of BLDC Motors Without Position Sensor. <i>IEEE Transactions on Industry Applications</i> , 2006 , 42, 1532-1538	4.3	70
293	Fast current controller in three-phase AC/DC boost converter using d-q axis crosscoupling. <i>IEEE Transactions on Power Electronics</i> , 1998 , 13, 179-185	7.2	69
292	. <i>IEEE Transactions on Industrial Electronics</i> , 1999 , 46, 517-526	8.9	69
291	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
290	AC/AC power conversion based on matrix converter topology with unidirectional switches. <i>IEEE Transactions on Industry Applications</i> , 2000 , 36, 139-145	4.3	66
289	Dynamic overmodulation characteristics of triangle intersection PWM methods. <i>IEEE Transactions on Industry Applications</i> , 1999 , 35, 896-907	4.3	66
288	A novel control algorithm for static series compensators by use of PQR instantaneous power theory. <i>IEEE Transactions on Power Electronics</i> , 2004 , 19, 814-827	7.2	63
287	Generalization of active filters for EMI reduction and harmonics compensation. <i>IEEE Transactions on Industry Applications</i> , 2006 , 42, 545-551	4.3	62
286	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
285	Compensation voltage control in dynamic voltage restorers by use of feed forward and state feedback scheme. <i>IEEE Transactions on Power Electronics</i> , 2005 , 20, 1169-1177	7.2	60
284	Position-controlled synchronous reluctance motor without rotational transducer. <i>IEEE Transactions on Industry Applications</i> , 1999 , 35, 1393-1398	4.3	60
283	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
282	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
281	Compensation of Current Measurement Error for Current-Controlled PMSM Drives. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 3365-3373	4.3	57
280	Current measurements in digitally controlled AC drives. <i>IEEE Industry Applications Magazine</i> , 2000 , 6, 51-62	0.6	56
279	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

278	Efficiency-optimized direct torque control of synchronous reluctance motor using feedback linearization. <i>IEEE Transactions on Industrial Electronics</i> , 1999 , 46, 192-198	8.9	54
277	A dual-phase-shift control strategy for dual-active-bridge DC-DC converter in wide voltage range 2011 ,		53
276	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
275	Novel rotor-flux observer using observer characteristic function in complex vector space for field-oriented induction motor drives. <i>IEEE Transactions on Industry Applications</i> , 2002 , 38, 1334-1343	4.3	51
274	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
273	A new tension controller for continuous strip processing line. <i>IEEE Transactions on Industry Applications</i> , 2000 , 36, 633-639	4.3	50
272	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
271	Overmodulation strategy for high-performance torque control. <i>IEEE Transactions on Power Electronics</i> , 1998 , 13, 786-792	7.2	45
270	A novel dynamic overmodulation strategy for fast torque control of high-saliency-ratio AC motor. <i>IEEE Transactions on Industry Applications</i> , 2005 , 41, 1013-1019	4.3	43
269	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
268	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
267	Vertical-vibration control of elevator using estimated car acceleration feedback compensation. <i>IEEE Transactions on Industrial Electronics</i> , 2000 , 47, 91-99	8.9	41
266	Advanced gear-shifting and clutching strategy for a parallel-hybrid vehicle. <i>IEEE Industry Applications Magazine</i> , 2000 , 6, 26-32	0.6	41
265	Common-mode voltage reduction method modifying the distribution of zero-voltage vector in PWM converter/inverter system. <i>IEEE Transactions on Industry Applications</i> , 2001 , 37, 1732-1738	4.3	41
264	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
263	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
262	Sensorless Operation of a PWM Rectifier for a Distributed Generation. <i>IEEE Transactions on Power Electronics</i> , 2007 , 22, 1014-1018	7.2	37
261	A new phase detecting method for power conversion systems considering distorted conditions in power system		37

260	A common mode voltage reduction in boost rectifier/inverter system by shifting active voltage vector in a control period. <i>IEEE Transactions on Power Electronics</i> , 2000 , 15, 1094-1101	7.2	36
259	2010 ,		36
258	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	7.2	35
257	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
256	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
255	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
254	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
253	A comprehensive cell capacitor energy control strategy of a modular multilevel converter (MMC) without a stiff DC bus voltage source 2014 ,		30
252	New field weakening technique for high saliency interior permanent magnet motor		30
251	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
250	Induction motor parameter tuning for high-performance drives. <i>IEEE Transactions on Industry Applications</i> , 2001 , 37, 35-41	4.3	27
249	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
248	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
247	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
246	Principle, control and comparison of modular multilevel converters (MMCs) with DC short circuit fault ride-through capability 2014 ,		24
245	Decoupling control of bridle rolls for steel mill drive system. <i>IEEE Transactions on Industry Applications</i> , 1999 , 35, 119-125	4.3	24
244	Position sensorless control of synchronous reluctance motor using high frequency current injection. <i>IEEE Transactions on Energy Conversion</i> , 1999 , 14, 1271-1275	5.4	23
243	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

242	Parameter independent maximum torque per ampere (MTPA) control of IPM machine based on signal injection 2010 ,		22
241	Direct torque control of induction machine with variable amplitude control of flux and torque hysteresis bands		22
240	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
239	Comparison of rotor position estimation performance in fundamental-model-based sensorless control of PMSM 2015 ,		21
238	Field weakening control of interior permanent magnet machine using improved current interpolation technique		21
237	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
236	Control of hybrid HVDC transmission system with LCC and FB-MMC 2014 ,		20
235	Suppression of Circulating Current in parallel operation of three-level converters 2016 ,		20
234	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
233	Three years of industrial experience with sensorless ipmsm drive based on high frequency injection method 2011 ,		19
232	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
231	Control of the Modular Multilevel Converter for variable-speed drives 2012 ,		18
230	A Novel Approach to Reduce Line Harmonic Current for a Three-phase Diode Rectifier-fed Electrolytic Capacitor-less Inverter 2009 ,		18
229	Initial rotor position detection of PMSM at standstill without rotational transducer		18
228	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
227	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
226	A New Universal Isolated Converter for Grid Connection. <i>IEEE Transactions on Industry Applications</i> , 2012 , 48, 685-696	4.3	17
225	Control strategy for improved dynamic performance of variable-speed drives with the Modular Multilevel Converter 2013 ,		17

224	Design of Speed Control Loop of A Variable Speed Diesel Engine Generator by Electric Governor 2008,		17
223	Comparison of PM motor structures and sensorless control techniques for zero-speed rotor position detection		17
222	A novel ride-through system for adjustable-speed drives using common-mode voltage. <i>IEEE Transactions on Industry Applications</i> , 2001 , 37, 1373-1382	4.3	17
221	Highly dynamic torque control of synchronous reluctance motor. <i>IEEE Transactions on Power Electronics</i> , 1998 , 13, 793-798	7.2	17
220	New approach for the low-speed operation of PMSM drives without rotational position sensors. <i>IEEE Transactions on Power Electronics</i> , 1996 , 11, 512-519	7.2	17
219	Identification of the Mechanical Parameters for Servo Drive. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , 2006 ,		16
218	Conducted EMI in PWM inverter for household electric appliance. <i>IEEE Transactions on Industry Applications</i> , 2002 , 38, 1370-1379	4.3	16
217	Compensation of position estimation error for precise position-sensorless control of IPMSM based on high-frequency pulsating voltage injection 2017 ,		15
216	Full torque-range low-speed sensorless drive for heavily saturated IPMSMs by manipulation of convergence point 2017 ,		14
215	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
214	Torque Control Strategy of an IPMSM Considering the Flux Variation of the Permanent Magnet. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , 2007 ,		14
213	Generalized solution of minimum time current control in three-phase balanced systems. <i>IEEE Transactions on Industrial Electronics</i> , 1998 , 45, 738-744	8.9	14
212	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
211	Inverter Nonlinearity Compensation Through Deadtime Effect Estimation. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 10684-10694	7.2	14
210	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
209	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
208	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
207	Dynamic overmodulation characteristics of triangle intersection PWM methods		13

206	Implementation and Sensorless Vector-Control Design and Tuning Strategy for SMPM Machines in Fan-Type Applications 2006,		13
205	Design and control of multispan tension simulator. <i>IEEE Transactions on Industry Applications</i> , 2000, 36, 640-648	4-3	13
204	A new topology of multilevel VSC converter for hybrid HVDC transmission system 2016,		13
203	DC-Link Voltage Design of High-Bandwidth Motor Emulator for Interior Permanent-Magnet Synchronous Motors 2018,		13
202	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
201	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</i> , 2007,		12
200	Practical design criteria of interior permanent magnet synchronous motor for 42V integrated starter-generator		12
199	Consideration of active-front-end rectifier for electric propulsion navy ship 2013,		11
198	Implementation of Grid-connected Single-phase Inverter Based on FPGA 2009,		11
197	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
196	Linear Overmodulation Strategy for Current Control in Photovoltaic Inverter. <i>IEEE Transactions on Industry Applications</i> , 2016, 52, 322-331	4-3	10
195	Design of a Current Regulator with Extended Bandwidth for Servo Motor Drive 2007,		10
194	Torque steering control of 4-wheel drive electric vehicle		10
193	Design of Wireless Temperature Monitoring System for Measurement of Magnet Temperature of IPMSM 2018,		10
192	A cell capacitor energy balancing control of Modular Multilevel Converter considering the unbalanced AC grid conditions 2014,		9
191	Condition monitoring of DC-link capacitors in drive system for electric vehicles 2012,		9
190	Low Voltage Ride Through(LVRT) control strategy of grid-connected variable speed Wind Turbine Generator System 2011,		9
189	Analysis and Compensation of Voltage Distortion by Zero Current Clamping in Voltage-Fed PWM Inverter.. <i>IEEJ Transactions on Industry Applications</i> , 1997, 117, 160-165	0.2	9

188	Flux Weakening Control of an Open Winding Machine with Isolated Dual Inverters. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , 2007 ,		9
187	A novel inertia identification method for speed control of electric machine		9
186	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
185	Back-EMF Based Sensorless Control of IPMSM with Enhanced Torque Accuracy Against Parameter Variation 2018 ,		9
184	Control of three phase inverter for AC motor drive with small DC-link capacitor fed by single phase AC source 2012 ,		8
183	LCL filter design and control for grid-connected PWM converter 2011 ,		8
182	Pseudorotor-flux-oriented control of an induction machine for deep-bar-effect compensation. <i>IEEE Transactions on Industry Applications</i> , 1998 , 34, 429-434	4.3	8
181	An instantaneous speed observer for low speed control of AC machine		8
180	Advantages of inset PM machines for zero-speed sensorless position detection 2006 ,		8
179	Design and Evaluation of a PLL-Based Position Controller for Sensorless Vector Control of Permanent-Magnet Synchronous Machines 2006 ,		8
178	Sensorless position control of active magnetic bearings based on high frequency signal injection method		8
177	Sensorless drive of SMPM motor by high frequency signal injection		8
176	On-line estimation of IGBT junction temperature using on-state voltage drop		8
175	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
174	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
173	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
172	Anti-islanding detection method using Negative Sequence Voltage 2012 ,		7
171	A current controller design for current source inverter-fed PMSM drive system 2011 ,		7

170	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
169	A novel filter design for suppression of high voltage gradient in voltage-fed PWM inverter		7
168	Design of Flux Observer Robust to Parameter Variation of Interior Permanent Magnet Synchronous Motor 2008 ,		7
167	Dual Observers for the Disturbance Rejection of a Motion Control System. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , 2007 ,		7
166	Novel Flux-Weakening Control of an IPMSM for Quasi Six-Step Operation. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , 2007 ,		7
165	Control of Rubber Tyred Gantry Crane with Energy Storage Based on Supercapacitor Bank		7
164	Synchronous frame current control of multi-phase synchronous motor - part II asymmetric fault condition due to open phases		7
163	A design consideration of output filters for dynamic voltage restorers		7
162	Synchronous frame current control of multi-phase synchronous motor. Part I. Modeling and current control based on multiple d-q spaces concept under balanced condition		7
161	Implementation of field oriented induction machine considering iron losses		7
160	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
159	Non-Invasive Magnet Temperature Estimation in IPMSM by High Frequency Pulsating Sinusoidal Voltage Injection 2018 ,		7
158	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
157	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
156	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
155	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
154	A design of circulating current controller for paralleled inverter with non-isolated dc-link 2017 ,		6
153	Dead-time compensation based on pole voltage measurement 2015 ,		6

152	A switching frequency reduction and a mitigation of voltage fluctuation of modular multilevel converter for HVDC 2014,		6
151	LCL filter design for grid-connected voltage-source converters in high power systems 2012,		6
150	Compensation of current measurement error for current-controlled PMSM drives 2012,		6
149	A new approach to advanced cold mill drive systems		6
148	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
147	Sensorless position control of active magnetic bearings based on high frequency signal injection with digital signal processing		6
146	Design and selection of AC machines for saliency-based sensorless control		6
145	Efficiency optimized vector control of synchronous reluctance motor		6
144	Advanced control strategy of parallel hybrid low emission electric vehicle		6
143	Overvoltage Suppressing Snubber Circuit for Solid State Circuit Breaker considering System Inductances 2019,		6
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135	Sensorless operation of permanent magnet motor using direct voltage sensing circuit		5

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129	Reduction of injection voltage in signal injection sensorless drives using capacitor-integrated inverter 2015 ,		4
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110	Novel topology of a line interactive UPS using PQR instantaneous power theory		4
109	Fault detection and fault tolerant control of interior permanent magnet motor drive system for electric vehicle		4
108	Analysis of permanent magnet machine for sensorless control based on high frequency signal injection		4
107	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
106	A carrier-based PWM method with optimal switching sequence for a multi-level four-leg VSI		4
105	Speed control of interior permanent magnet synchronous motor drive for flux weakening operation		4
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83	Torque ripple minimization strategy for direct torque control of production motor		3
82	A new configuration of drive system for high speed gearless elevator		3
81	Automatic commissioning for vector controlled AC motors using Walsh functions		3

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17	A new sensorless thrust control of linear induction motor		1
16	Sensorless position control and initial position estimation of an interior permanent magnet motor		1
15	Design of fast response current controller using d-q axis cross-coupling		1
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