

Seung-Ki Sul

List of Publications by Year in descending order

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14,825
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19608

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413
all docs

413
docs citations

413
times ranked

5749
citing authors

#	ARTICLE	IF	CITATIONS
1	Inverter output voltage synthesis using novel dead time compensation. IEEE Transactions on Power Electronics, 1996, 11, 221-227.	5.4	418
2	Sensorless drive of surface-mounted permanent-magnet motor by high-frequency signal injection based on magnetic saliency. IEEE Transactions on Industry Applications, 2003, 39, 1031-1039.	3.3	416
3	New direct torque control of induction motor for minimum torque ripple and constant switching frequency. IEEE Transactions on Industry Applications, 1999, 35, 1076-1082.	3.3	390
4	Speed control of interior permanent magnet synchronous motor drive for the flux weakening operation. IEEE Transactions on Industry Applications, 1997, 33, 43-48.	3.3	374
5	High-Bandwidth Sensorless Algorithm for AC Machines Based on Square-Wave-Type Voltage Injection. IEEE Transactions on Industry Applications, 2011, 47, 1361-1370.	3.3	374
6	A compensation method for time delay of full-digital synchronous frame current regulator of pwm ac drives. IEEE Transactions on Industry Applications, 2003, 39, 802-810.	3.3	283
7	Unified voltage modulation technique for real-time three-phase power conversion. IEEE Transactions on Industry Applications, 1998, 34, 374-380.	3.3	271
8	Analysis of Permanent-Magnet Machine for Sensorless Control Based on High-Frequency Signal Injection. IEEE Transactions on Industry Applications, 2004, 40, 1595-1604.	3.3	257
9	Sensorless field-orientation control of an induction machine by high-frequency signal injection. IEEE Transactions on Industry Applications, 1999, 35, 45-51.	3.3	250
10	Analysis of Multiphase Space Vector Pulse-Width Modulation Based on Multiple Spaces Concept. IEEE Transactions on Power Electronics, 2005, 20, 1364-1371.	5.4	241
11	Initial Rotor Position Estimation of an Interior Permanent-Magnet Synchronous Machine Using Carrier-Frequency Injection Methods. IEEE Transactions on Industry Applications, 2005, 41, 38-45.	3.3	227
12	A Carrier-Based PWM Method for Three-Phase Four-Leg Voltage Source Converters. IEEE Transactions on Power Electronics, 2004, 19, 66-75.	5.4	218
13	Maximum Torque per Ampere (MTPA) Control of an IPM Machine Based on Signal Injection Considering Inductance Saturation. IEEE Transactions on Power Electronics, 2013, 28, 488-497.	5.4	218
14	System Integration and Power-Flow Management for a Series Hybrid Electric Vehicle Using Supercapacitors and Batteries. IEEE Transactions on Industry Applications, 2008, 44, 108-114.	3.3	210
15	PWM Switching Frequency Signal Injection Sensorless Method in IPMSM. IEEE Transactions on Industry Applications, 2012, 48, 1576-1587.	3.3	205
16	Sensorless rotor position estimation of an interior permanent-magnet motor from initial states. IEEE Transactions on Industry Applications, 2003, 39, 761-767.	3.3	194
17	Fault Detection and Fault-Tolerant Control of Interior Permanent-Magnet Motor Drive System for Electric Vehicle. IEEE Transactions on Industry Applications, 2005, 41, 46-51.	3.3	191
18	Six-Step Operation of PMSM With Instantaneous Current Control. IEEE Transactions on Industry Applications, 2014, 50, 2614-2625.	3.3	180

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19	Comparison of PM Motor Structures and Sensorless Control Techniques for Zero-Speed Rotor Position Detection. IEEE Transactions on Power Electronics, 2007, 22, 2466-2475.	5.4	177
20	Analysis and compensation of current measurement error in vector-controlled AC motor drives. IEEE Transactions on Industry Applications, 1998, 34, 340-345.	3.3	175
21	Sensorless field orientation control of an induction machine by high frequency signal injection. , 0, , .		172
22	A Nine-Phase Permanent-Magnet Motor Drive System for an Ultrahigh-Speed Elevator. IEEE Transactions on Industry Applications, 2012, 48, 987-995.	3.3	172
23	Novel Flux-Weakening Control of an IPMSM for Quasi-Six-Step Operation. IEEE Transactions on Industry Applications, 2008, 44, 1722-1731.	3.3	171
24	Kalman filter and LQ based speed controller for torsional vibration suppression in a 2-mass motor drive system. IEEE Transactions on Industrial Electronics, 1995, 42, 564-571.	5.2	162
25	A Comprehensive DC Short-Circuit Fault Ride Through Strategy of Hybrid Modular Multilevel Converters (MMCs) for Overhead Line Transmission. IEEE Transactions on Power Electronics, 2016, 31, 7780-7796.	5.4	160
26	Carrier-Based Modulation Technique for Matrix Converter. IEEE Transactions on Power Electronics, 2006, 21, 1691-1703.	5.4	159
27	Synchronous-frame current control of multiphase synchronous motor under asymmetric fault condition due to open phases. IEEE Transactions on Industry Applications, 2006, 42, 1062-1070.	3.3	156
28	A new PWM strategy for common-mode voltage reduction in neutral-point-clamped inverter-fed AC motor drives. IEEE Transactions on Industry Applications, 2001, 37, 1840-1845.	3.3	154
29	Fuzzy-logic-based torque control strategy for parallel-type hybrid electric vehicle. IEEE Transactions on Industrial Electronics, 1998, 45, 625-632.	5.2	150
30	Voltage control strategy for maximum torque operation of an induction machine in the field-weakening region. IEEE Transactions on Industrial Electronics, 1997, 44, 512-518.	5.2	147
31	Unified voltage modulation technique for real time three-phase power conversion. , 0, , .		138
32	A Novel Method Utilizing Trapezoidal Voltage to Compensate for Inverter Nonlinearity. IEEE Transactions on Power Electronics, 2012, 27, 4837-4846.	5.4	133
33	A new motor speed estimator using Kalman filter in low-speed range. IEEE Transactions on Industrial Electronics, 1996, 43, 498-504.	5.2	126
34	A new active common-mode EMI filter for PWM inverter. IEEE Transactions on Power Electronics, 2003, 18, 1309-1314.	5.4	121
35	Fast current controller in three-phase AC/DC boost converter using d-q axis crosscoupling. IEEE Transactions on Power Electronics, 1998, 13, 179-185.	5.4	117
36	Suppression of Injection Voltage Disturbance for High-Frequency Square-Wave Injection Sensorless Drive With Regulation of Induced High-Frequency Current Ripple. IEEE Transactions on Industry Applications, 2016, 52, 302-312.	3.3	115

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37	A New Topology of Multilevel VSC Converter for a Hybrid HVDC Transmission System. IEEE Transactions on Power Electronics, 2017, 32, 4199-4209.	5.4	111
38	New approach for high-performance PMSM drives without rotational position sensors. IEEE Transactions on Power Electronics, 1997, 12, 904-911.	5.4	109
39	AC/AC power conversion based on matrix converter topology with unidirectional switches. IEEE Transactions on Industry Applications, 2000, 36, 139-145.	3.3	108
40	Compensation Voltage Control in Dynamic Voltage Restorers by Use of Feed Forward and State Feedback Scheme. IEEE Transactions on Power Electronics, 2005, 20, 1169-1177.	5.4	108
41	A new phase detecting method for power conversion systems considering distorted conditions in power system. , 0, , .		106
42	Minimum-loss strategy for three-phase PWM rectifier. IEEE Transactions on Industrial Electronics, 1999, 46, 517-526.	5.2	105
43	A New Starting Method of BLDC Motors Without Position Sensor. IEEE Transactions on Industry Applications, 2006, 42, 1532-1538.	3.3	104
44	Asymmetric Control of DC-Link Voltages for Separate MPPTs in Three-Level Inverters. IEEE Transactions on Power Electronics, 2013, 28, 2760-2769.	5.4	104
45	Generalization of active filters for EMI reduction and harmonics compensation. IEEE Transactions on Industry Applications, 2006, 42, 545-551.	3.3	103
46	A dual-phase-shift control strategy for dual-active-bridge DC-DC converter in wide voltage range. , 2011, , .		103
47	Voltage Feedback Current Control Scheme for Improved Transient Performance of Permanent Magnet Synchronous Machine Drives. IEEE Transactions on Industrial Electronics, 2012, 59, 3373-3382.	5.2	102
48	Control of Three-Phase Inverter for AC Motor Drive With Small DC-Link Capacitor Fed by Single-Phase AC Source. IEEE Transactions on Industry Applications, 2014, 50, 1074-1081.	3.3	99
49	Position-controlled synchronous reluctance motor without rotational transducer. IEEE Transactions on Industry Applications, 1999, 35, 1393-1398.	3.3	98
50	Dynamic overmodulation characteristics of triangle intersection PWM methods. IEEE Transactions on Industry Applications, 1999, 35, 896-907.	3.3	97
51	Compensation of Current Measurement Error for Current-Controlled PMSM Drives. IEEE Transactions on Industry Applications, 2014, 50, 3365-3373.	3.3	95
52	A Novel Control Algorithm for Static Series Compensators by Use of PQR Instantaneous Power Theory. IEEE Transactions on Power Electronics, 2004, 19, 814-827.	5.4	94
53	Power Control Algorithm for Hybrid Excavator With Supercapacitor. IEEE Transactions on Industry Applications, 2010, 46, 1447-1455.	3.3	90
54	New field weakening technique for high saliency interior permanent magnet motor. , 0, , .		88

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55	Sensorless Control Method for PMSM Based on Frequency-Adaptive Disturbance Observer. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 143-151.	3.7	86
56	A new tension controller for continuous strip processing line. IEEE Transactions on Industry Applications, 2000, 36, 633-639.	3.3	85
57	Sensorless control of IPMSM for last 10 years and next 5 years. CES Transactions on Electrical Machines and Systems, 2017, 1, 91-99.	2.7	84
58	Novel rotor-flux observer using observer characteristic function in complex vector space for field-oriented induction motor drives. IEEE Transactions on Industry Applications, 2002, 38, 1334-1343.	3.3	79
59	Variable-Speed Engine Generator With Supercapacitor: Isolated Power Generation System and Fuel Efficiency. IEEE Transactions on Industry Applications, 2009, 45, 2130-2135.	3.3	78
60	Current measurements in digitally controlled AC drives. IEEE Industry Applications Magazine, 2000, 6, 51-62.	0.3	77
61	Novel Speed and Rotor Position Estimation Strategy Using a Dual Observer for Low-Resolution Position Sensors. IEEE Transactions on Power Electronics, 2009, 24, 2897-2906.	5.4	75
62	Efficiency-optimized direct torque control of synchronous reluctance motor using feedback linearization. IEEE Transactions on Industrial Electronics, 1999, 46, 192-198.	5.2	71
63	Overmodulation strategy for high-performance torque control. IEEE Transactions on Power Electronics, 1998, 13, 786-792.	5.4	70
64	Advantages of Inset PM Machines for Zero-Speed Sensorless Position Detection. IEEE Transactions on Industry Applications, 2008, 44, 1190-1198.	3.3	70
65	Design of Flux Observer Robust to Interior Permanent-Magnet Synchronous Motor Flux Variation. IEEE Transactions on Industry Applications, 2009, 45, 1670-1677.	3.3	67
66	Analysis on Position Estimation Error in Position-Sensorless Operation of IPMSM Using Pulsating Square Wave Signal Injection. IEEE Transactions on Industry Applications, 2019, 55, 458-470.	3.3	66
67	Advanced gear-shifting and clutching strategy for a parallel-hybrid vehicle. IEEE Industry Applications Magazine, 2000, 6, 26-32.	0.3	60
68	A Novel Dynamic Overmodulation Strategy for Fast Torque Control of High-Saliency-Ratio AC Motor. IEEE Transactions on Industry Applications, 2005, 41, 1013-1019.	3.3	60
69	Model-Based Sensorless Control of an IPMSM With Enhanced Robustness Against Load Disturbances Based on Position and Speed Estimator Using a Speed Error. IEEE Transactions on Industry Applications, 2018, 54, 1448-1459.	3.3	60
70	Vertical-vibration control of elevator using estimated car acceleration feedback compensation. IEEE Transactions on Industrial Electronics, 2000, 47, 91-99.	5.2	59
71	A Current Controller Design for Current Source Inverter-Fed AC Machine Drive System. IEEE Transactions on Power Electronics, 2013, 28, 1366-1381.	5.4	58
72	Common-mode voltage reduction method modifying the distribution of zero-voltage vector in PWM converter/inverter system. IEEE Transactions on Industry Applications, 2001, 37, 1732-1738.	3.3	57

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73	DC Capacitor Voltage Balancing Control for Delta-Connected Cascaded H-Bridge STATCOM Considering Unbalanced Grid and Load Conditions. IEEE Transactions on Power Electronics, 2018, 33, 4726-4735.	5.4	56
74	Analysis and compensation of current measurement error in vector controlled AC motor drives. , 0, , .		55
75	Analysis and Compensation of Inverter Nonlinearity for Three-Level T-Type Inverters. IEEE Transactions on Power Electronics, 2017, 32, 4970-4980.	5.4	54
76	Common-Mode Voltage Reduction of Three-Level Four-Leg PWM Converter. IEEE Transactions on Industry Applications, 2015, 51, 4006-4016.	3.3	52
77	Design and Control of an Axial-Flux Machine for a Wide Flux-Weakening Operation Region. IEEE Transactions on Industry Applications, 2009, 45, 1258-1266.	3.3	51
78	A Comprehensive AC-Side Single-Line-to-Ground Fault Ride Through Strategy of an MMC-Based HVDC System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 1021-1031.	3.7	49
79	Extending Operational Limit of IPMSM in Signal-Injection Sensorless Control by Manipulation of Convergence Point. IEEE Transactions on Industry Applications, 2019, 55, 1574-1586.	3.3	49
80	Control of an Open-Winding Machine in a Grid-Connected Distributed Generation System. IEEE Transactions on Industry Applications, 2008, 44, 1259-1267.	3.3	48
81	A new PWM strategy for common mode voltage reduction in neutral-point clamped inverter-fed AC motor drives. , 0, , .		46
82	A common mode voltage reduction in boost rectifier/inverter system by shifting active voltage vector in a control period. IEEE Transactions on Power Electronics, 2000, 15, 1094-1101.	5.4	46
83	Direct torque control of induction machine with variable amplitude control of flux and torque hysteresis bands. , 0, , .		45
84	Advantages of inset PM machines for zero-speed sensorless position detection. , 2006, , .		45
85	Sensorless Operation of a PWM Rectifier for a Distributed Generation. IEEE Transactions on Power Electronics, 2007, 22, 1014-1018.	5.4	44
86	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, , .		44
87	A comprehensive cell capacitor energy control strategy of a modular multilevel converter (MMC) without a stiff DC bus voltage source. , 2014, , .		43
88	Induction motor parameter tuning for high-performance drives. IEEE Transactions on Industry Applications, 2001, 37, 35-41.	3.3	41
89	Online MTPA Control of IPMSM Based on Robust Numerical Optimization Technique. IEEE Transactions on Industry Applications, 2019, 55, 3736-3746.	3.3	40
90	Balancing of Submodule Capacitor Voltage of Hybrid Modular Multilevel Converter Under DC-Bus Voltage Variation of HVDC System. IEEE Transactions on Power Electronics, 2019, 34, 10458-10470.	5.4	39

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91	Implementation and Sensorless Vector-Control Design and Tuning Strategy for SMPM Machines in Fan-Type Applications. , 2006, , .		38
92	Field Weakening Control of Interior Permanent Magnet Machine using Improved Current Interpolation Technique. , 0, , .		37
93	Discrete-Time Voltage Controller for Voltage Source Converters With <i>LC</i> Filter Based on State-Space Models. IEEE Transactions on Industry Applications, 2019, 55, 529-540.	3.3	37
94	On-line estimation of IGBT junction temperature using on-state voltage drop. , 0, , .		36
95	A Modular Multilevel Converter with a Zigzag Transformer for Bipolar MVDC Distribution Systems. IEEE Transactions on Power Electronics, 2019, 34, 1038-1043.	5.4	36
96	Parameter independent maximum torque per ampere (MTPA) control of IPM machine based on signal injection. , 2010, , .		35
97	Reduction of Injection Voltage in Signal Injection Sensorless Drives Using a Capacitor-Integrated Inverter. IEEE Transactions on Power Electronics, 2017, 32, 6261-6274.	5.4	35
98	A Damping Scheme for Switching Ringing of Full SiC MOSFET by Air Core PCB Circuit. IEEE Transactions on Power Electronics, 2018, 33, 4605-4615.	5.4	35
99	Comparison of rotor position estimation performance in fundamental-model-based sensorless control of PMSM. , 2015, , .		34
100	Decoupling control of bridge rolls for steel mill drive system. IEEE Transactions on Industry Applications, 1999, 35, 119-125.	3.3	33
101	Principle, control and comparison of modular multilevel converters (MMCs) with DC short circuit fault ride-through capability. , 2014, , .		33
102	Position sensorless control of synchronous reluctance motor using high frequency current injection. IEEE Transactions on Energy Conversion, 1999, 14, 1271-1275.	3.7	32
103	Sensorless drive of SMPM motor by high frequency signal injection. , 0, , .		32
104	Signal-Injection Sensorless Control With Tilted Current Reference for Heavily Saturated IPMSMs. IEEE Transactions on Power Electronics, 2020, 35, 12100-12109.	5.4	32
105	Identification of the Mechanical Parameters for Servo Drive. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2006, , .	0.0	31
106	Distortion-Minimizing Flux Observer for IPMSM Based on Frequency-Adaptive Observers. IEEE Transactions on Power Electronics, 2020, 35, 2077-2087.	5.4	31
107	Initial rotor position detection of PMSM at standstill without rotational transducer. , 0, , .		30
108	Conducted EMI in PWM inverter for household electric appliance. IEEE Transactions on Industry Applications, 2002, 38, 1370-1379.	3.3	28

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109	Application of a Disturbance Observer for a Relative Position Control System. IEEE Transactions on Industry Applications, 2010, 46, 849-856.	3.3	28
110	Three years of industrial experience with sensorless ipmsm drive based on high frequency injection method. , 2011, , .		28
111	Suppression of Circulating Current in parallel operation of three-level converters. , 2016, , .		28
112	Non-Invasive Magnet Temperature Estimation of IPMSM Based on High-Frequency Inductance With a Pulsating High-Frequency Voltage Signal Injection. IEEE Transactions on Industry Applications, 2019, 55, 3076-3086.	3.3	28
113	A novel filter design for suppression of high voltage gradient in voltage-fed PWM inverter. , 0, , .		27
114	Common mode voltage reduction method modifying the distribution of zero voltage vector in PWM converter/inverter system. , 0, , .		27
115	A novel ride-through system for adjustable-speed drives using common-mode voltage. IEEE Transactions on Industry Applications, 2001, 37, 1373-1382.	3.3	27
116	A Novel Approach to Reduce Line Harmonic Current for a Three-phase Diode Rectifier-fed Electrolytic Capacitor-less Inverter. , 2009, , .		27
117	Identification of IPMSM Flux-Linkage Map for High-Accuracy Simulation of IPMSM Drives. IEEE Transactions on Power Electronics, 2021, 36, 14257-14266.	5.4	27
118	Practical design criteria of interior permanent magnet synchronous motor for 42V integrated starter-generator. , 0, , .		26
119	Inverter Nonlinearity Compensation Through Deadtime Effect Estimation. IEEE Transactions on Power Electronics, 2021, 36, 10684-10694.	5.4	26
120	New approach for the low-speed operation of PMSM drives without rotational position sensors. IEEE Transactions on Power Electronics, 1996, 11, 512-519.	5.4	25
121	Highly dynamic torque control of synchronous reluctance motor. IEEE Transactions on Power Electronics, 1998, 13, 793-798.	5.4	25
122	Sensorless operation of permanent magnet motor using direct voltage sensing circuit. , 0, , .		25
123	Control of hybrid HVDC transmission system with LCC and FB-MMC. , 2014, , .		25
124	Frequency-Adaptive Observer to Extract AC-Coupled Signals for Grid Synchronization. IEEE Transactions on Industry Applications, 2017, 53, 273-282.	3.3	25
125	Comparison of PM motor structures and sensorless control techniques for zero-speed rotor position detection. , 0, , .		24
126	Design of Speed Control Loop of A Variable Speed Diesel Engine Generator by Electric Governor. , 2008, , .		24

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127	Sensorless position control and initial position estimation of an interior permanent magnet motor. , 0, , .		23
128	Compensation of position estimation error for precise position-sensorless control of IPMSM based on high-frequency pulsating voltage injection. , 2017, , .		23
129	Design and selection of AC machines for saliency-based sensorless control. , 0, , .		22
130	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. , 0, , .		22
131	Design and Evaluation of a PLL-Based Position Controller for Sensorless Vector Control of Permanent-Magnet Synchronous Machines. , 2006, , .		22
132	Torque Control Strategy of an IPMSM Considering the Flux Variation of the Permanent Magnet. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	22
133	Control of the Modular Multilevel Converter for variable-speed drives. , 2012, , .		22
134	Temperature Estimation of IPMSM by Using Fundamental Reactive Energy Considering Variation of Inductances. IEEE Transactions on Power Electronics, 2021, 36, 5771-5783.	5.4	22
135	Design and control of multispan tension simulator. IEEE Transactions on Industry Applications, 2000, 36, 640-648.	3.3	21
136	Flux Weakening Control of an Open Winding Machine with Isolated Dual Inverters. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	21
137	LCL filter design and control for grid-connected PWM converter. , 2011, , .		21
138	A New Universal Isolated Converter for Grid Connection. IEEE Transactions on Industry Applications, 2012, 48, 685-696.	3.3	21
139	Control strategy for improved dynamic performance of variable-speed drives with the Modular Multilevel Converter. , 2013, , .		21
140	Voltage injection method for boundary expansion of output voltages in three shunt sensing PWM inverters. , 2011, , .		20
141	A novel inertia identification method for speed control of electric machine. , 0, , .		19
142	Generalized solution of minimum time current control in three-phase balanced systems. IEEE Transactions on Industrial Electronics, 1998, 45, 738-744.	5.2	19
143	Torque Control Strategy of an IPMSM Considering the Flux Variation of the Permanent Magnet. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	19
144	Energy-saving method of parallel mechanism by redundant actuation. International Journal of Precision Engineering and Manufacturing - Green Technology, 2015, 2, 345-351.	2.7	19

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145	Design of Wireless Temperature Monitoring System for Measurement of Magnet Temperature of IPMSM. , 2018, , .		19
146	Analysis and Compensation of Voltage Distortion by Zero Current Clamping in Voltage-Fed PWM Inverter.. IEEJ Transactions on Industry Applications, 1997, 117, 160-165.	0.1	18
147	LCL filter design for grid-connected voltage-source converters in high power systems. , 2012, , .		18
148	Stability-Oriented Design of Frequency Drift Anti-Islanding and Phase-Locked Loop Under Weak Grid. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 760-774.	3.7	18
149	Minimum Torque Ripple Pulse Width Modulation With Reduced Switching Frequency for Medium-Voltage Motor Drive. IEEE Transactions on Industry Applications, 2018, 54, 3315-3325.	3.3	18
150	DC-Link Voltage Design of High-Bandwidth Motor Emulator for Interior Permanent-Magnet Synchronous Motors. , 2018, , .		18
151	Recent Advances in Sensorless Drive of Interior Permanent-Magnet Motor Based on Pulsating Signal Injection. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 6577-6588.	3.7	18
152	An instantaneous speed observer for low speed control of AC machine. , 0, , .		17
153	A design consideration of output filters for dynamic voltage restorers. , 0, , .		17
154	Analysis and design of a decoupling current controller for AC machines: a unified transfer-matrix approach. , 0, , .		17
155	Carrier-based Modulation Method for Matrix Converter with Input Power Factor Control and under Unbalanced Input Voltage Conditions. IEEE Applied Power Electronics Conference and Exposition, 2007, , .	0.0	17
156	Control of three phase inverter for AC motor drive with small DC-link capacitor fed by single phase AC source. , 2012, , .		17
157	Torque Ripple-Minimizing Control of IPMSM With Optimized Current Trajectory. IEEE Transactions on Industry Applications, 2021, 57, 3852-3862.	3.3	17
158	Control of unbalanced voltage PWM converter using instantaneous ripple power feedback. , 0, , .		16
159	A novel ride-through system for adjustable speed drives using common-mode voltage. , 0, , .		16
160	Controller design for dynamic voltage restorer with harmonics compensation function. , 0, , .		16
161	A new topology of multilevel VSC converter for hybrid HVDC transmission system. , 2016, , .		16
162	Design of Frequency-Adaptive Flux Observer in PMSM Drives Robust to Discretization Error. IEEE Transactions on Industrial Electronics, 2022, 69, 3334-3344.	5.2	16

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163	Analysis of Instability in Torque Control of Sensorless PMSM Drives in Flux Weakening Region. IEEE Transactions on Power Electronics, 2021, 36, 10815-10826.	5.4	16
164	Speed control of interior permanent magnet synchronous motor drive for flux weakening operation. , 0, , .		15
165	Dynamic overmodulation characteristics of triangle intersection PWM methods. , 0, , .		15
166	A new sensorless thrust control of linear induction motor. , 0, , .		15
167	A novel active common-mode EMI filter for PWM inverter. , 0, , .		15
168	Design of a Variable Speed Compressor Drive System for Air-Conditioner without Electrolytic Capacitor. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	15
169	A Protection Scheme Against Voltage Sags for Electrolytic Capacitorless AC Drives. IEEE Transactions on Industry Applications, 2009, 45, 186-193.	3.3	15
170	Analysis on output LC filters for PWM inverters. , 2009, , .		15
171	Low Voltage Ride Through(LVRT) control strategy of grid-connected variable speed Wind Turbine Generator System. , 2011, , .		15
172	Full torque-range low-speed sensorless drive for heavily saturated IPMSMs by manipulation of convergence point. , 2017, , .		15
173	Torque steering control of 4-wheel drive electric vehicle. , 0, , .		14
174	Implementation of field oriented induction machine considering iron losses. , 0, , .		14
175	Sensorless position control of active magnetic bearings based on high frequency signal injection method. , 0, , .		14
176	A calculation for the compensation voltages in dynamic voltage restorers by use of PQR power theory. , 0, , .		14
177	Dual Observers for the Disturbance Rejection of a Motion Control System. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	14
178	FPGA-based motion controller with a high bandwidth current regulator. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	14
179	A current controller design for current source inverter-fed PMSM drive system. , 2011, , .		14
180	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. IEEE Transactions on Power Electronics, 2019, 34, 8190-8200.	5.4	14

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181	Advanced gear shifting and clutching strategy for parallel hybrid vehicle with automated manual transmission. , 0, , .		13
182	Vector control of surface mounted permanent magnet motor without any rotational transducer. , 0, , .		13
183	Design of a Current Regulator with Extended Bandwidth for Servo Motor Drive. , 2007, , .		13
184	Implementation of Grid-connected Single-phase Inverter Based on FPGA. , 2009, , .		13
185	Condition monitoring of DC-link capacitors in drive system for electric vehicles. , 2012, , .		13
186	Consideration of active-front-end rectifier for electric propulsion navy ship. , 2013, , .		13
187	Linear Overmodulation Strategy for Current Control in Photovoltaic Inverter. IEEE Transactions on Industry Applications, 2016, 52, 322-331.	3.3	13
188	A Novel Filter Structure to Suppress Circulating Currents Based on the Sequence of Sideband Harmonics for High-Power Interleaved Motor-Drive Systems. IEEE Transactions on Power Electronics, 2020, 35, 853-866.	5.4	13
189	New current control concept: minimum time current control in induction machine drive. , 0, , .		12
190	Vector control of interior permanent magnet synchronous motor without a shaft sensor. , 0, , .		12
191	Pseudorotor-flux-oriented control of an induction machine for deep-bar-effect compensation. IEEE Transactions on Industry Applications, 1998, 34, 429-434.	3.3	12
192	A new vision-sensorless anti-sway control system for container cranes. , 0, , .		12
193	Sensorless position control of active magnetic bearings based on high frequency signal injection with digital signal processing. , 0, , .		12
194	A novel control method for the compensation voltages in dynamic voltage restorers. , 0, , .		12
195	Design of Flux Observer Robust to Parameter Variation of Interior Permanent Magnet Synchronous Motor. , 2008, , .		12
196	Anti-islanding detection method using Negative Sequence Voltage. , 2012, , .		12
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