Jung-Ik Ha

List of Publications by Citations

Source: https://exaly.com/author-pdf/4986396/jung-ik-ha-publications-by-citations.pdf

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

135
papers

2,155
citations

21
h-index

g-index

2,890
ext. papers

5,41
ext. papers

2,890
avg, IF

L-index

#	Paper	IF	Citations
135	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
134	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
133	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
132	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
131	PWM Switching Frequency Signal Injection Sensorless Method in IPMSM. <i>IEEE Transactions on Industry Applications</i> , 2012 , 48, 1576-1587	4.3	122
130	Direct energy recovery system for membrane capacitive deionization. <i>Desalination</i> , 2016 , 398, 144-150	10.3	78
129	Voltage Injection Method for Three-Phase Current Reconstruction in PWM Inverters Using a Single Sensor. <i>IEEE Transactions on Power Electronics</i> , 2009 , 24, 767-775	7.2	74
128	Current Prediction in Vector-Controlled PWM Inverters Using Single DC-Link Current Sensor. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 716-726	8.9	63
127	Position-controlled synchronous reluctance motor without rotational transducer. <i>IEEE Transactions on Industry Applications</i> , 1999 , 35, 1393-1398	4.3	60
126	Direct Power Control of a Three-Phase Inverter for Grid Input Current Shaping of a Single-Phase Diode Rectifier With a Small DC-Link Capacitor. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 3794-3	803	52
125	Design Principle and Loss Engineering for Photovoltaic-Electrolysis Cell System. <i>ACS Omega</i> , 2017 , 2, 1009-1018	3.9	39
124	Low-Common Mode Voltage H-Bridge Converter with Additional Switch Legs. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 1773-1782	7.2	38
123	Hybrid Modulation of Dual Inverter for Open-End Permanent Magnet Synchronous Motor. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 3286-3299	7.2	38
122	Control Method for Mono Inverter Dual Parallel Surface-Mounted Permanent-Magnet Synchronous Machine Drive System. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 6096-6107	8.9	30
121	Evaluation of Back-EMF Estimators for Sensorless Control of Permanent Magnet Synchronous Motors. <i>Journal of Power Electronics</i> , 2012 , 12, 604-614	0.9	29
120	A hybrid speed estimator of flux observer for induction motor drives. <i>IEEE Transactions on Industrial Electronics</i> , 2006 , 53, 130-137	8.9	28
119	A Family of High-Frequency Single-Switch DCDC Converters With Low Switch Voltage Stress Based on Impedance Networks. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 2913-2924	7.2	25

(2013-2018)

118	Variable Time Step Control for Six-Step Operation in Surface-Mounted Permanent Magnet Machine Drives. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 1501-1513	7.2	23	
117	Analog Filtering Method for Sensorless AC Machine Control With Carrier-Frequency Signal Injection. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 5348-5358	8.9	23	
116	Phase Current Reconstructions from DC-Link Currents in Three-Phase Three-Level PWM Inverters. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 582-593	7.2	22	
115	Sensorless displacement estimation of a shape memory alloy coil spring actuator using inductance. <i>Smart Materials and Structures</i> , 2013 , 22, 025001	3.4	22	
114	Grid Current Shaping Method with DC-Link Shunt Compensator for Three-Phase Diode Rectifier-Fed Motor Drive System. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 1279-1288	7.2	19	
113	Single-Phase Active Power Filtering Method Using Diode-Rectifier-Fed Motor Drive. <i>IEEE Transactions on Industry Applications</i> , 2015 , 51, 2227-2236	4.3	19	
112	Dynamic Matching System for Radio-Frequency Plasma Generation. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 1940-1951	7.2	19	
111	Single-Phase Grid-Connected Motor Drive System With DC-Link Shunt Compensator and Small DC-Link Capacitor. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 1268-1278	7.2	18	
110	Single-Switch High-Frequency DCDC Converter Using Parasitic Components. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 3651-3661	7.2	18	
109	Power enhancement of dual inverter for open-end permanent magnet synchronous motor 2013,		18	
108	Fault-Tolerant Operation Under Single-Phase Open in Mono Inverter Dual Parallel SMPMSM With Single Shaft. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 12064-12079	7.2	15	
107	Discontinuous Grid Current Control of Motor Drive System With Single-Phase Diode Rectifier and Small DC-Link Capacitor. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 1324-1334	7.2	14	
106	Analysis and Suppression of Slotting and Cross-Coupling Effects on Current Control in PM Synchronous Motor Drives. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 9942-9956	7.2	14	
105	Control Method of Monoinverter Dual Parallel Drive System With Interior Permanent Magnet Synchronous Machines. <i>IEEE Transactions on Power Electronics</i> , 2015 , 1-1	7.2	14	
104	. IEEE Transactions on Energy Conversion, 2013, 28, 413-424	5.4	14	
103	Analysis of Inherent Magnetic Position Sensors in Symmetric AC Machines for Zero or Low Speed Sensorless Drives. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 4689-4696	2	14	
102	Droop Control Using Impedance of Grid-Integrated DFIG within Microgrid. <i>IEEE Transactions on Energy Conversion</i> , 2019 , 34, 88-97	5.4	12	
101	Analysis of the Phase Current Measurement Boundary of Three Shunt Sensing PWM Inverters and an Expansion Method. <i>Journal of Power Electronics</i> , 2013 , 13, 232-242	0.9	12	

100	Intracortical lipoma of the femur. Skeletal Radiology, 2007, 36 Suppl 1, S77-81	2.7	12
99	Single-Phase Inverter Drive for Interior Permanent Magnet Machines. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 1355-1366	7.2	11
98	Physical understanding of high frequency injection method to sensorless drives of an induction machine	2	11
97	Temperature Estimation of PMSM Using a Difference-Estimating Feedforward Neural Network. <i>IEEE Access</i> , 2020 , 8, 130855-130865	3.5	11
96	Cell balancing control using adjusted filters in flyback converter with single switch 2013,		9
95	A novel hybrid speed estimator of flux observer for induction motor drives 2002 ,		9
94	Hydrogen Production via Water Electrolysis: The Benefits of a Solar Cell-Powered Process. <i>IEEE Electrification Magazine</i> , 2018 , 6, 19-25	2.6	8
93	Series arc fault detection method based on statistical analysis for dc Microgrids 2016 ,		8
92	Inner Supply Data Transmission in Quasi-Resonant Flyback Converters for Li-Ion Battery Applications Using Multiplexing Mode. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 64-73	7.2	8
91	Active cell balancing algorithm for serially connected li-ion batteries based on power to energy ratio 2017 ,		8
90	Analysis and control of mono inverter dual parallel SPMSM drive system 2014,		8
89	Sensorless drive of SMPM motor by high frequency signal injection		8
88	Direction Priority Control Method for Magnetic Manipulation System in Current and Voltage Limits. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 2914-2923	8.9	7
87	Active power control for minimum switching of three-phase electrolytic capacitor-less PWM converter 2013 ,		7
86	Single external source control of doubly-fed induction machine using dual inverter 2013,		7
85	Control Method of Double Inverter Fed Wound Machine for Minimizing Copper Loss in Maximized Operating Area. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 7700-7710	8.9	6
84	2015,		6
83	System conditions monitoring method for a wireless cellular phone charger 2014 ,		6

(2011-2013)

82	Single-phase active power filtering method using diode-rectifier-fed motor drive 2013,		6
81	Design and selection of AC machines for saliency-based sensorless control		6
80	Advanced control strategy of parallel hybrid low emission electric vehicle		6
79	Dynamic decoupling control method for PMSM drive with cross-coupling inductances 2017 ,		5
78	Resonant Switching Cell Model for High-Frequency Single-Ended Resonant Converters. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 11897-11911	7.2	5
77	Active DC-link circuit for single-phase diode rectifier system with small capacitance 2014,		5
76	Control of a Synchronous Motor With an Inverter Integrated Rotor. <i>IEEE Transactions on Industry Applications</i> , 2012 , 48, 1993-2001	4.3	5
75	Cell Balancing Method in Flyback Converter without Cell Selection Switch of Multi-Winding Transformer. <i>Journal of Electrical Engineering and Technology</i> , 2016 , 11, 367-376	1.4	5
74	A Battery Charging Method with Natural Synchronous Rectification Features for Full-bridge CLLC Converters. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	5
73	The Electric Variable Transmission without slip ring for the Hybrid Electric Vehicle driving structure 2015 ,		4
73 72			4
	2015,		
	DC-link shunt compensator for three-phase system with small DC-link capacitor 2015 ,	7.2	
7 ²	DC-link shunt compensator for three-phase system with small DC-link capacitor 2015, Cell balancing control of single switch flyback converter using generalized filters 2014, Wound Rotor Machine Fed by a Single-Phase Grid and Controlled by an Isolated Inverter. IEEE	7.2	4
7 ² 71 70	DC-link shunt compensator for three-phase system with small DC-link capacitor 2015, Cell balancing control of single switch flyback converter using generalized filters 2014, Wound Rotor Machine Fed by a Single-Phase Grid and Controlled by an Isolated Inverter. IEEE Transactions on Power Electronics, 2014, 29, 4843-4854 Grid current shaping of single phase diode rectifier with small DC-link capacitor for three phase	7.2	4
7 ² 7 ¹ 7 ⁰	DC-link shunt compensator for three-phase system with small DC-link capacitor 2015, Cell balancing control of single switch flyback converter using generalized filters 2014, Wound Rotor Machine Fed by a Single-Phase Grid and Controlled by an Isolated Inverter. IEEE Transactions on Power Electronics, 2014, 29, 4843-4854 Grid current shaping of single phase diode rectifier with small DC-link capacitor for three phase motor drive 2014,	7.2	4 4
72 71 70 69 68	DC-link shunt compensator for three-phase system with small DC-link capacitor 2015, Cell balancing control of single switch flyback converter using generalized filters 2014, Wound Rotor Machine Fed by a Single-Phase Grid and Controlled by an Isolated Inverter. IEEE Transactions on Power Electronics, 2014, 29, 4843-4854 Grid current shaping of single phase diode rectifier with small DC-link capacitor for three phase motor drive 2014, Variable time step control for six-step operation in SMPMSM 2015, Output voltage control for series-series compensated wireless power transfer system without	7.2	4 4 4

64	Voltage injection method for boundary expansion of output voltages in three shunt sensing PWM inverters 2011 ,	4
63	Initial voltage angle detection method of a PWM converter without any grid voltage measurement using conduction state of diodes for smooth starting 2012 ,	4
62	Sensorless field orientation control of an induction machine by high frequency signal injection	4
61	Carrier-Based Signal Injection Method for Harmonic Suppression in PWM Inverter Using Single DC-link Current Sensor. <i>Industrial Electronics Society (IECON), Annual Conference of IEEE</i> , 2006 ,	4
60	Analysis of permanent magnet machine for sensorless control based on high frequency signal injection	4
59	Data transmission method without additional circuits in bidirectional wireless power transfer system 2016 ,	4
58	Design and Control Method for Synchronous Permanent Magnet Motor Drive System with Series Capacitor 2018 ,	4
57	Design and Control of Single-Phase Grid-Connected Photovoltaic Microinverter with Reactive Power Support Capability 2018 ,	4
56	Analysis and design of resonant rectifier for high-frequency dc-dc converters 2017,	3
55	Low voltage modulation method in six-step operation of three phase inverter 2015,	3
54	Reduced sampling rate for cell voltage sensing in high-level Modular Multilevel Converter 2014,	3
53	Efficiency control of multi-string PV system considering switching losses analysis 2014,	3
52	Individual MPPTs of single-phase three-level split DC-bus inverter 2014 ,	3
51	Design of GaN transistor-based class E DC-DC converter with resonant rectifier circuit 2015 ,	3
50	Synchoronous PWM with single voltage vector per sector in voltage source inverter 2015,	3
49	Analysis of parameter variations on mono inverter dual parallel SPMSM drive system 2015,	3
48	Carrier signal injection method in three shunt sensing inverter for sensorless AC machine drive 2014 ,	3
47	PWM switching frequency signal injection sensorless method in IPMSM 2011 ,	3

(2020-2000)

46	Controller Design of Sensorless Induction Machine by High Frequency Voltage Injection. <i>IEEJ Transactions on Industry Applications</i> , 2000 , 120, 1257-1264	0.2	3
45	Seamless black start and reconnection of LCL-filtered solid state transformer based on droop control 2016 ,		3
44	Design and Analysis of Single-Inductor Power Convertor for Both Battery Balancing and Voltage Regulation. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	3.9	3
43	Resonant Converter Design Using Two-Port Passive Network: Single Frequency Design 2018,		3
42	Variable time step control with synchronous PWM in flux weakening region of PMSM 2016,		2
41	Power Capability Improvement of Interior Permanent Magnet Synchronous Motor Drives Using Capacitive Network 2019 ,		2
40	Control method for mono inverter dual parallel interior permanent magnet synchronous machine drive system 2015 ,		2
39	Sensorless vector control of doubly fed induction machine using a reduced order observer estimating 2012 ,		2
38	2012,		2
37	A low common mode noise bridgeless boost-buck-boost power factor correction rectifier 2012 ,		2
36	Six step phase modulation of dual inverter for open-end permanent magnet synchronous motor 2013 ,		2
35	Fabrication and Characterization of AZ91/CNT Magnesium Matrix Composites. <i>Materials Science Forum</i> , 2009 , 620-622, 271-274	0.4	2
34	High efficiency dual inverter drives for a PMSM considering field weakening region 2012,		2
33	High frequency injection method improved by flux observer for sensorless control of an induction motor		2
32	Accuracy Enhancement of Parameter Estimation and Sensorless Algorithms Based on Current Shaping. <i>Journal of Power Electronics</i> , 2016 , 16, 1-8	0.9	2
31	Magnetically Actuated Forward-Looking Interventional Ultrasound Imaging: Feasibility Studies. **IEEE Transactions on Biomedical Engineering, 2020 , 67, 1797-1805	5	2
30	Design and Control Method for a Surface-Mounted Permanent Magnet Motor Drive System With Passive Output Power Network. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 3891-3905	7.2	2
29	High Reliable Power Conversion System with Active Battery Balancing Capability 2020,		2

28	Variable time step control with synchronous PWM in low frequency modulation index for AC machine drive 2016 ,		2
27	Resonant network design methodology based on two-port network analysis considering load impedance variation 2019 ,		2
26	Harmonic Torque Reduction Using Adaptive Sector-Based Torque Feedforward Method for PMSM 2018 ,		2
25	Enhancement of parameter estimation accuracy using current shaping in PM machine drive 2015,		1
24	Cost-Effective High-Performance Digital Control Method in Series-Series Compensated Wireless Power Transfer System. <i>Electronics (Switzerland)</i> , 2020 , 9, 1772	2.6	1
23	Analysis and Design of 4-to-1 Capacitor-Stacking Balancer for Stacked Voltage Domain. <i>IEEE Access</i> , 2020 , 8, 110252-110263	3.5	1
22	Power Capability Improvement of Interior Permanent Magnet Synchronous Motor Drives Using Capacitive Network. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 10109-10120	8.9	1
21	Nonlinearity analysis and linear modulation method for two level voltage source inverter with low switching to operating frequency ratio 2016 ,		1
20	Dual voltage regulations of single switch flyback converter using variable switching frequency 2016 ,		1
19	Minimum copper loss control of doubly-fed induction generator for wind turbines 2014,		1
18	Novel topology and control of single inverter system for two permanent magnet synchronous machines 2014 ,		1
17	Decoupled current control with novel anti-windup for PMSM drives 2017,		1
16	Enhancement of output voltage using current shaping in sensorless AC machine drive 2014,		1
15	A low-common mode noise and high-efficiency buck-buck-boost inverter 2013 ,		1
14	A new sensorless thrust control of linear induction motor		1
13	Sensorless position control and initial position estimation of an interior permanent magnet motor		1
12	Consideration of the Carrier Based Signal Injection Method in Three Shunt Sensing Inverters for Sensorless Motor Control. <i>Journal of Power Electronics</i> , 2016 , 16, 1791-1801	0.9	1
11	Efficient and Reconfigurable Multi-cell Battery Pack for Portable Electronic Devices with Simultaneous Charging and Discharging Capability 2021 ,		1

LIST OF PUBLICATIONS

10	Model-based MTPA control of permanent magnet synchronous machine drives under one-phase open-circuit fault 2016 ,		1
9	Design Method of Capacitor Network for Interior Permanent Magnet Synchronous Machine Drive 2019 ,		1
8	Control Area Expansion Using Null Space Vector Injection Under Current Limit in Magnetic Manipulation System 2018 ,		1
7	Single-Phase Inverter Scheme for Permanent Magnet Synchronous Motor Drive with Resonant Capacitor 2018 ,		1
6	Fault-tolerant operation with 1-phase open in parallel-connected motor 2018,		1
5	Impedance Compressing Matching Network Based on Two-Port Network Analysis for Wireless Power Transfer System. <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , 2021 , 1-1	2.6	1
4	Wound Rotor Machine With Single-Phase Stator and Three-Phase Rotor Windings Controlled by Isolated Three-Phase Inverter. <i>IEEE Transactions on Energy Conversion</i> , 2015 , 30, 558-568	5.4	0
3	Dynamic current control using synchronous pulse-width modulation for permanent magnet machines. <i>Journal of Power Electronics</i> , 2020 , 20, 501-510	0.9	О
2	Control Method in Minimum Infinity-Norm Approach for Multi-Coil Magnetic Manipulation system. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1	2	
1	Design and Control Method for Interior Permanent Magnet Synchronous Machine Drive With Capacitor Power Network. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 259-273	5.6	