Jaroslaw Guzinski

List of Publications by Year in descending order

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45 papers	1,142 citations	933447 10 h-index	839539 18 g-index
51 all docs	51 docs citations	51 times ranked	926 citing authors

#	Article	IF	Citations
1	Speed and Load Torque Observer Application in High-Speed Train Electric Drive. IEEE Transactions on Industrial Electronics, 2010, 57, 565-574.	7.9	130
2	Speed Sensorless Induction Motor Drive With Predictive Current Controller. IEEE Transactions on Industrial Electronics, 2013, 60, 699-709.	7.9	128
3	Application of Speed and Load Torque Observers in High-Speed Train Drive for Diagnostic Purposes. IEEE Transactions on Industrial Electronics, 2009, 56, 248-256.	7.9	105
4	Artificial-Neural-Network-Based Sensorless Nonlinear Control of Induction Motors. IEEE Transactions on Energy Conversion, 2005, 20, 520-528.	5.2	100
5	Medium-Voltage Drives: Challenges and existing technology. IEEE Power Electronics Magazine, 2016, 3, 29-41.	0.7	92
6	Advanced Control of Induction Motor Based on Load Angle Estimation. IEEE Transactions on Industrial Electronics, 2004, 51, 5-14.	7.9	40
7	Speed observer system for advanced sensorless control of induction motor. IEEE Transactions on Energy Conversion, 2003, 18, 219-224.	5.2	39
8	Critical Review on Robust Speed Control Techniques for Permanent Magnet Synchronous Motor (PMSM) Speed Regulation. Energies, 2022, 15, 1235.	3.1	29
9	High step-up continuous input current LCCT-Z-source inverters for fuel cells. , 2011, , .		27
10	Feedback Control of Multiphase Induction Machines With Backstepping Technique. IEEE Transactions on Industrial Electronics, 2020, 67, 4305-4314.	7.9	27
11	Predictive current controller for sensorless induction motor drive. , 2010, , .		21
12	Medium voltage drives - challenges and requirements. , 2010, , .		18
13	An advanced low-cost sensorless induction motor drive. IEEE Transactions on Industry Applications, 2003, 39, 1757-1764.	4.9	14
14	Sensorless field oriented control of five phase induction motor with third harmonic injection. , 2017, , .		14
15	Closed loop control of AC drive with LC filter. , 2008, , .		12
16	Trans-Z-source-like inverter with built-in DC current blocking capacitors. , 2011, , .		9
17	Sensorless direct torque control of induction motor drive with LC filter. , 2012, , .		8
18	Sensorless induction motor drive with voltage inverter and sine-wave filter. , 2013, , .		8

#	Article	IF	Citations
19	Sensorless control system of an induction machine with the Z-type backstepping observer. , 2014, , .		8
20	Nonlinear control of five phase induction motor with synchronized third harmonic flux injection. , 2015, , .		8
21	Rotor broken bar diagnostics in induction motor drive using Wavelet packet transform and ANFIS classification. , 2011, , .		7
22	Speed sensorless induction motor drive with motor choke and predictive control. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2011, 30, 686-705.	0.9	7
23	A Measurement-Based Approach for Speed Control of Induction Machines. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 308-318.	5.4	7
24	Sensorless control system of induction machine supplied by voltage source inverter with output filter. , 2015, , .		7
25	Application of speed and load torque observers in high speed train. , 2008, , .		6
26	Speed sensorless AC drive with inverter output filter and fault detection using load torque signal. , 2010, , .		6
27	Shaft misalignment detection using ANFIS for speed sensorless AC drive with inverter output filter. , 2011, , .		6
28	MRAS-Based Switching Linear Feedback Strategy for Sensorless Speed Control of Induction Motor Drives. Energies, 2021, 14, 3083.	3.1	6
29	Predictive current control implementation in the sensorless induction motor drive. , 2011, , .		5
30	Five-phase induction motor drive with sine-wave filter. , 2014, , .		5
31	Speed sensorless asynchronous motor drive with inverter output LC filter. , 2010, , .		4
32	Simple observer for induction motor speed sensorless control. , 2011, , .		4
33	Five-Phase EV Drive with Switched-Autotransformer (LCCAt) Inverter. , 2014, , .		4
34	Optimized Space Vector Modulation strategy for five phase voltage source inverter with third harmonic injection. , 2017, , .		4
35	Open-Phase Fault Detection Method for Sensorless Five-Phase Induction Motor Drives with an Inverter Output Filter. Power Electronics and Drives, 2019, 4, 191-202.	0.9	4
36	Sensorless control of five-phase induction machine supplied by the VSI with output filter. , 2016, , .		3

#	Article	IF	Citations
37	Sensorless fault detection of induction motor with inverter output filter. , 2016, , .		3
38	Sensorless disturbance detection for five phase induction motor with third harmonic injection. , 2017, , .		3
39	Sensorless multiscalar control of five-phase induction machine with inverter output filter. , 2017, , .		3
40	Digital Implementation of a Novel Controlled Rectifier Synchronization Method. Electric Power Components and Systems, 2005, 33, 1123-1135.	1.8	2
41	Model-Free Controller Tuning Based on DFT Processing: Application to Induction Motor Drives. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 1013-1023.	5.4	2
42	Fuzzy Control of Waves Generation in a Towing Tank. Energies, 2020, 13, 2049.	3.1	2
43	Faults and Fault Detection Methods in Electric Drives. Advances in Intelligent Systems and Computing, 2020, , 57-69.	0.6	1
44	Speed Sensorless AC Drive with Inverter LC Filter and Fault Detection Using Load Torque Signal. Przeglad Elektrotechniczny, 2017, 1, 291-299.	0.2	0
45	Application of the ISE Optimized Proportional Control of the Wave Maker in a Towing Tank. IEEE Access, 2022, 10, 42151-42162.	4.2	0