

Dong Wang

List of Publications by Year in descending order

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38
papers

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all docs

38
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38
times ranked

309
citing authors

#	ARTICLE	IF	CITATIONS
1	Resonance Reduction for AC Drives With Small Capacitance in the DC Link. IEEE Transactions on Industry Applications, 2017, 53, 3814-3820.	4.9	36
2	A New Load Torque Identification Sliding Mode Observer for Permanent Magnet Synchronous Machine Drive System. IEEE Transactions on Power Electronics, 2019, 34, 7852-7862.	7.9	35
3	A New Load Adaptive Identification Method Based on an Improved Sliding Mode Observer for PMSM Position Servo System. IEEE Transactions on Power Electronics, 2021, 36, 3211-3223.	7.9	35
4	Voltage Modulation Using Virtual Positive Impedance Concept for Active Damping of Small DC-Link Drive System. IEEE Transactions on Power Electronics, 2018, 33, 10611-10621.	7.9	28
5	Improved Closed-Loop Flux Observer Based Sensorless Control Against System Oscillation for Synchronous Reluctance Machine Drives. IEEE Transactions on Power Electronics, 2019, 34, 4593-4602.	7.9	24
6	An adaptive proportional-integral-resonant controller for speed ripple suppression of PMSM drive due to current measurement error. International Journal of Electrical Power and Energy Systems, 2021, 129, 106866.	5.5	19
7	Analysis of voltage modulation based active damping techniques for small DC-link drive system. , 2015, , .		18
8	Simple and Effective Online Position Error Compensation Method for Sensorless SPMSM Drives. IEEE Transactions on Industry Applications, 2020, 56, 1475-1484.	4.9	17
9	Robust plug-in repetitive control for speed smoothness of cascaded-PI PMSM drive. Mechanical Systems and Signal Processing, 2022, 163, 108090.	8.0	16
10	Robust Sensorless Control Against Thermally Degraded Speed Performance in an IM Drive Based Electric Vehicle. IEEE Transactions on Energy Conversion, 2020, 35, 896-907.	5.2	15
11	Design optimization of hydraulic energy storage and conversion system for wave energy converters. Protection and Control of Modern Power Systems, 2018, 3, .	7.5	14
12	Motor-Driven Giant Magnetostrictive Actuator. IEEE Transactions on Magnetics, 2015, 51, 1-7.	2.1	10
13	Resonance reduction for AC drives with small capacitance in the DC link. , 2016, , .		9
14	Comparative study of low-pass filter and phase-locked loop type speed filters for sensorless control of AC drives. CES Transactions on Electrical Machines and Systems, 2017, 1, 207-215.	3.5	9
15	An I-f Startup Method with Compensation Loops for PMSM with Smooth Transition. IEEJ Journal of Industry Applications, 2020, 9, 263-270.	1.1	7
16	Identification of load current influences on position estimation errors for sensorless SPMSM drives. , 2018, , .		6
17	Stress-Based Variable Inductor for Electronic Ballasts. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	5
18	High-Frequency Signal Injection Method Based on Duty Cycle Shifting Without Maximum Fundamental Voltage Magnitude Loss. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 1225-1236.	5.4	5

#	ARTICLE	IF	CITATIONS
19	Active DaMPing control methods for three-phase slim DC-link drive system. , 2017, , .		5
20	A New Position Detection and Status Monitoring System for Joint of SCARA. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1613-1623.	5.8	5
21	A new short-time high-overload BLDC driving system based on electronic flywheel and time-division switching control. Mechatronics, 2020, 69, 102385.	3.3	4
22	Investigation of Various Position Estimation Accuracy Issues in Pulse-Injection-based Sensorless Drives. , 2018, , .		3
23	A new high-response self-balancing sensorless control system of induction motor for weft accumulator. Mechatronics, 2019, 62, 102249.	3.3	3
24	Online Identification of Intrinsic Load Current Dependent Position Estimation Error for Sensorless PMSM Drives. IEEE Access, 2020, 8, 163186-163196.	4.2	3
25	Optimized Energy Control Scheme for Electric Drive of EV Powertrain Using Genetic Algorithms. Energies, 2021, 14, 3529.	3.1	3
26	Design and Experimental Investigation of a Hybrid Rotor Permanent Magnet Modular Machine with 3D Flux Paths Accounting for Recyclability of Permanent Magnet Material. Energies, 2020, 13, 1342.	3.1	2
27	An I-f Startup Method for Back-EMF based Sensorless FOC of PMSMs with Improved Stability During the Transition. , 2020, , .		2
28	A general and intuitive approach to understand and compare the torque production capability of AC machines. , 2014, , .		1
29	A new high frequency injection method based on duty cycle shifting without maximum voltage magnitude loss. , 2015, , .		1
30	Simple and Effective Position Estimation Error Compensation Method for Sensorless SPMSM Drives. , 2018, , .		1
31	Pulse-Injection-Based Sensorless Control Method with Improved Dynamic Current Response for PMSM. , 2018, , .		1
32	Investigation of a Surface Mounted PM Machine Concept with 3D-Flux Paths, Modular Stator and Amorphous Material. , 2019, , .		1
33	Initial position detection for Selective Compliance Assembly Robot Arm manipulator joint based on an improved high-frequency injection method. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2020, 234, 912-921.	1.0	1
34	A Small-signal Stability Study for Open-loop I-f Control of Permanent Magnet Synchronous Machine Drives. , 2021, , .		1
35	Linear modeling of the three-phase diode front-ends with reduced capacitance considering the continuous conduction mode. , 2016, , .		0
36	Analysis of System Interharmonics of VSI-Fed Small DC-Link Drive with Varying Power Load. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
37	Corrections to "A New Load Torque Identification Sliding Mode Observer for Permanent Magnet Synchronous Machine Drive System" [Aug 19 7852-7862]. IEEE Transactions on Power Electronics, 2020, 35, 1156-1156.	7.9	0
38	Thermally degraded speed estimation of traction machine drive in electric vehicle. IET Electric Power Applications, 0, , .	1.8	0