

Dong Wang

List of Publications by Year in descending order

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38
papers

345
citations

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888059

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38
all docs

38
docs citations

38
times ranked

309
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust plug-in repetitive control for speed smoothness of cascaded-PI PMSM drive. Mechanical Systems and Signal Processing, 2022, 163, 108090.	8.0	16
2	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
3	A New Position Detection and Status Monitoring System for Joint of SCARA. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1613-1623.	5.8	5
4	A Small-signal Stability Study for Open-loop I-f Control of Permanent Magnet Synchronous Machine Drives. , 2021, , .		1
5	Optimized Energy Control Scheme for Electric Drive of EV Powertrain Using Genetic Algorithms. Energies, 2021, 14, 3529.	3.1	3
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	Simple and Effective Online Position Error Compensation Method for Sensorless SPMSM Drives. IEEE Transactions on Industry Applications, 2020, 56, 1475-1484.	4.9	17
8	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
9	Online Identification of Intrinsic Load Current Dependent Position Estimation Error for Sensorless PMSM Drives. IEEE Access, 2020, 8, 163186-163196.	4.2	3
10	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
11	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
12	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
13	An I-f Startup Method with Compensation Loops for PMSM with Smooth Transition. IEEE Journal of Industry Applications, 2020, 9, 263-270.	1.1	7
14	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
15	An I-f Startup Method for Back-EMF based Sensorless FOC of PMSMs with Improved Stability During the Transition. , 2020, , .		2
16	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
17	A new high-response self-balancing sensorless control system of induction motor for weft accumulator. Mechatronics, 2019, 62, 102249.	3.3	3
18	Investigation of a Surface Mounted PM Machine Concept with 3D-Flux Paths, Modular Stator and Amorphous Material. , 2019, , .		1

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19	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
20	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
21	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
22	Identification of load current influences on position estimation errors for sensorless SPMSM drives. , 2018, , .		6
23	Analysis of System Interharmonics of VSI-Fed Small DC-Link Drive with Varying Power Load. , 2018, , .		0
24	Simple and Effective Position Estimation Error Compensation Method for Sensorless SPMSM Drives. , 2018, , .		1
25	Pulse-Injection-Based Sensorless Control Method with Improved Dynamic Current Response for PMSM. , 2018, , .		1
26	Investigation of Various Position Estimation Accuracy Issues in Pulse-Injection-based Sensorless Drives. , 2018, , .		3
27	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
28	Resonance Reduction for AC Drives With Small Capacitance in the DC Link. IEEE Transactions on Industry Applications, 2017, 53, 3814-3820.	4.9	36
29	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
30	Active DaMPing control methods for three-phase slim DC-link drive system. , 2017, , .		5
31	Linear modeling of the three-phase diode front-ends with reduced capacitance considering the continuous conduction mode. , 2016, , .		0
32	Resonance reduction for AC drives , with small capacitance in the DC link. , 2016, , .		9
33	Analysis of voltage modulation based active damping techniques for small DC-link drive system. , 2015, , .		18
34	A new high frequency injection method based on duty cycle shifting without maximum voltage magnitude loss. , 2015, , .		1
35	Motor-Driven Giant Magnetostrictive Actuator. IEEE Transactions on Magnetics, 2015, 51, 1-7.	2.1	10
36	Stress-Based Variable Inductor for Electronic Ballasts. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	5

#	ARTICLE	IF	CITATIONS
37	A general and intuitive approach to understand and compare the torque production capability of AC machines. , 2014, , .		1
38	Thermally degraded speed estimation of traction machine drive in electric vehicle. IET Electric Power Applications, 0, , .	1.8	0