

Chengning Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

859
citations

516710
16
h-index

501196
28
g-index

56
all docs

56
docs citations

56
times ranked

809
citing authors

#	ARTICLE	IF	CITATIONS
1	Deadbeat Harmonic Current Control of Permanent Magnet Synchronous Machine Drives for Torque Ripple Reduction. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 3357-3370.	5.4	12
2	Novel Deadbeat Predictive Current Control for PMSM With Parameter Updating Scheme. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 2065-2074.	5.4	10
3	A computationally efficient surrogate model based robust optimization for permanent magnet synchronous machines. IEEE Transactions on Energy Conversion, 2022, , 1-1.	5.2	5
4	Robust Sliding Mode Control of the Permanent Magnet Synchronous Motor with an Improved Power Reaching Law. Energies, 2022, 15, 1935.	3.1	3
5	A Permanent Magnet Assembling Approach to Mitigate the Cogging Torque for Permanent Magnet Machines Considering Manufacturing Uncertainties. Energies, 2022, 15, 2154.	3.1	3
6	Development of Equivalent Circuit Models of Permanent Magnet Synchronous Motors Considering Core Loss. Energies, 2022, 15, 1995.	3.1	11
7	An Enhanced Deadbeat Predictive Current Control of SPMSM With Linear Disturbance Observer. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 6304-6316.	5.4	1
8	An Improved Model Free Predictive Current Control for PMSM With Current Prediction Error Variations. IEEE Access, 2022, 10, 54537-54548.	4.2	9
9	Improved Model Predictive Current Control for SPMSM Drives Using Current Update Mechanism. IEEE Transactions on Industrial Electronics, 2021, 68, 1938-1948.	7.9	31
10	Improved multiple vector model predictive torque control of permanent magnet synchronous motor for reducing torque ripple. IET Electric Power Applications, 2021, 15, 681-695.	1.8	6
11	Computationally Efficient PM Power Loss Mapping for PWM Drive Surface-Mounted Permanent Magnet Synchronous Machines. Applied Sciences (Switzerland), 2021, 11, 3246.	2.5	3
12	Torque Ripple Reduction Method for Permanent Magnet Synchronous Machine Drives With Novel Harmonic Current Control. IEEE Transactions on Energy Conversion, 2021, 36, 2502-2513.	5.2	37
13	Current Prediction Error Based Parameter Identification Method for SPMSM With Deadbeat Predictive Current Control. IEEE Transactions on Energy Conversion, 2021, 36, 1700-1710.	5.2	20
14	Methods to Improve the Cogging Torque Robustness Under Manufacturing Tolerances for the Permanent Magnet Synchronous Machine. IEEE Transactions on Energy Conversion, 2021, 36, 2152-2162.	5.2	12
15	Improved Deadbeat Predictive Current Control to Enhance the Performance of the Drive System of Permanent Magnet Synchronous Motors. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-4.	1.7	7
16	Improved Deadbeat Predictive Current Control of Permanent Magnet Synchronous Motor Using a Novel Stator Current and Disturbance Observer. IEEE Access, 2021, 9, 142815-142826.	4.2	12
17	Torque Ripple Suppression for Open-End Winding Permanent-Magnet Synchronous Machine Drives With Predictive Current Control. IEEE Transactions on Industrial Electronics, 2020, 67, 1771-1781.	7.9	55
18	Improved Model Predictive Current Control for SPMSM Drives With Parameter Mismatch. IEEE Transactions on Industrial Electronics, 2020, 67, 852-862.	7.9	62

#	ARTICLE	IF	CITATIONS
19	Methods to Reduce the Computational Burden of Robust Optimization for Permanent Magnet Motors. IEEE Transactions on Energy Conversion, 2020, 35, 2116-2128.	5.2	10
20	Analysis of Core Loss of Permanent Magnet Synchronous Machine for Vehicle Applications under Different Operating Conditions. Applied Sciences (Switzerland), 2020, 10, 7232.	2.5	4
21	Nonparametric Predictive Current Control for PMSM. IEEE Transactions on Power Electronics, 2020, 35, 9332-9341.	7.9	37
22	A method to estimate the worst-case torque ripple under manufacturing uncertainties for permanent magnet synchronous machines. , 2020, , .		3
23	Multi-Variable Thermal Modeling of Power Devices Considering Mutual Coupling. Applied Sciences (Switzerland), 2019, 9, 3240.	2.5	3
24	Enhanced Robust Deadbeat Predictive Current Control for PMSM Drives. IEEE Access, 2019, 7, 148218-148230.	4.2	42
25	Predictive current control for SynRM drives under low dc link voltage. , 2019, , .		3
26	Oil-Cooling Method of the Permanent Magnet Synchronous Motor for Electric Vehicle. Energies, 2019, 12, 2984.	3.1	33
27	A Novel Deadbeat Predictive Current Control Scheme for OEW-PMSM Drives. IEEE Transactions on Power Electronics, 2019, 34, 11990-12000.	7.9	31
28	Comparative study of thermal properties of electrical windings impregnated with alternative varnish materials. Journal of Engineering, 2019, 2019, 3736-3741.	1.1	7
29	An Equivalent Circuit Model for Predicting the Core Loss in a Claw-Pole Permanent Magnet Motor With Soft Magnetic Composite Core. IEEE Transactions on Magnetics, 2018, 54, 1-6.	2.1	10
30	Junction temperature estimation model of insulated gate bipolar transistor power module in three-phase inverter. , 2017, , .		0
31	PTC Self-Heating Experiments and Thermal Modeling of Lithium-Ion Battery Pack in Electric Vehicles. Energies, 2017, 10, 572.	3.1	21
32	An optimal control allocation strategy for an eight in-wheel-motor drive electric vehicle. , 2017, , .		2
33	An Improved Continuous-Time Model Predictive Control of Permanent Magnetic Synchronous Motors for a Wide-Speed Range. Energies, 2017, 10, 2051.	3.1	12
34	An Integrated Multifunctional Bidirectional AC/DC and DC/DC Converter for Electric Vehicles Applications. Energies, 2016, 9, 493.	3.1	35
35	A High Power Density Integrated Charger for Electric Vehicles with Active Ripple Compensation. Mathematical Problems in Engineering, 2015, 2015, 1-18.	1.1	12
36	Preheating method of lithium-ion batteries in an electric vehicle. Journal of Modern Power Systems and Clean Energy, 2015, 3, 289-296.	5.4	67

#	ARTICLE	IF	CITATIONS
37	A Computationally Efficient PM Power Loss Mapping for Brushless AC PM Machines With Surface-Mounted PM Rotor Construction. IEEE Transactions on Industrial Electronics, 2015, 62, 7391-7401.	7.9	19
38	Optimal Control Strategy Design Based on Dynamic Programming for a Dual-Motor Coupling-Propulsion System. Scientific World Journal, The, 2014, 2014, 1-9.	2.1	20
39	Control allocation in the dynamic control of an eight in-wheel motored vehicle. , 2014, , .		1
40	Analysis of optimal power management strategy for series plug-in hybrid electric vehicles via Dynamic Programming. , 2014, , .		1
41	Study on the Optimal Charging Strategy for Lithium-Ion Batteries Used in Electric Vehicles. Energies, 2014, 7, 6783-6797.	3.1	35
42	A computationally efficient PM power loss derivation for surface-mounted brushless AC PM machines. , 2014, , .		9
43	Handling characteristics of a four-axle electric vehicle. , 2014, , .		1
44	The electromagnetic losses analysis of surface-mounted brushless AC PM machine driven by PWM. , 2014, , .		1
45	Motion simulation and optimization design of double-front axle steering system based on ADAMS. , 2014, , .		2
46	Analysis of stator winding inter-turn short circuit fault of PMSM for electric vehicle based on finite element simulation. , 2014, , .		5
47	Power system dynamic stability analysis of electro-mechanical transmission. , 2014, , .		0
48	Analysis of losses and thermal model in a surface-mounted permanent-magnet synchronous machine over a wide- voltage range of rated output power operation. , 2014, , .		2
49	Research on steady and transient characteristics of 4-axle vehicle handling. , 2014, , .		0
50	Loss analysis of rotor magnet with PWM controller switching frequency variation. , 2014, , .		2
51	Fuzzy PID control for boom energy recovery on hybrid hydraulic excavator. , 2011, , .		1
52	Design and thermal analysis of traction motor for electric vehicle based on driving duty cycle. , 2010, , .		1
53	Thermal Analysis of Permanent Magnet Motor for the Electric Vehicle Application Considering Driving Duty Cycle. IEEE Transactions on Magnetics, 2010, 46, 2493-2496.	2.1	122
54	Compilation of dynamic efficiency test cycle for motor propulsion system on hybrid electric vehicle. , 2010, , .		3

#	ARTICLE	IF	CITATIONS
55	Core loss analysis of permanent magnet synchronous motor for electric vehicle based on experimental test curves. , 2010, , .		0
56	Speed identification about enhanced magnetism motor with MRAS. , 2008, , .		3