

Chengning Zhang

List of Publications by Year in descending order

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809
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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | Improved Model Predictive Current Control for SPMSM Drives With Parameter Mismatch. IEEE Transactions on Industrial Electronics, 2020, 67, 852-862. | 7.9 | 62 |
| 4 | 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 |
| 5 | Enhanced Robust Deadbeat Predictive Current Control for PMSM Drives. IEEE Access, 2019, 7, 148218-148230. | 4.2 | 42 |
| 6 | Nonparametric Predictive Current Control for PMSM. IEEE Transactions on Power Electronics, 2020, 35, 9332-9341. | 7.9 | 37 |
| 7 | 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 |
| 8 | Study on the Optimal Charging Strategy for Lithium-Ion Batteries Used in Electric Vehicles. Energies, 2014, 7, 6783-6797. | 3.1 | 35 |
| 9 | An Integrated Multifunctional Bidirectional AC/DC and DC/DC Converter for Electric Vehicles Applications. Energies, 2016, 9, 493. | 3.1 | 35 |
| 10 | Oil-Cooling Method of the Permanent Magnet Synchronous Motor for Electric Vehicle. Energies, 2019, 12, 2984. | 3.1 | 33 |
| 11 | A Novel Deadbeat Predictive Current Control Scheme for OEW-PMSM Drives. IEEE Transactions on Power Electronics, 2019, 34, 11990-12000. | 7.9 | 31 |
| 12 | Improved Model Predictive Current Control for SPMSM Drives Using Current Update Mechanism. IEEE Transactions on Industrial Electronics, 2021, 68, 1938-1948. | 7.9 | 31 |
| 13 | PTC Self-Heating Experiments and Thermal Modeling of Lithium-Ion Battery Pack in Electric Vehicles. Energies, 2017, 10, 572. | 3.1 | 21 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | A High Power Density Integrated Charger for Electric Vehicles with Active Ripple Compensation. Mathematical Problems in Engineering, 2015, 2015, 1-18. | 1.1 | 12 |
| 18 | An Improved Continuous-Time Model Predictive Control of Permanent Magnetic Synchronous Motors for a Wide-Speed Range. Energies, 2017, 10, 2051. | 3.1 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | Development of Equivalent Circuit Models of Permanent Magnet Synchronous Motors Considering Core Loss. Energies, 2022, 15, 1995. | 3.1 | 11 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | A computationally efficient PM power loss derivation for surface-mounted brushless AC PM machines. , 2014, , . | | 9 |
| 27 | An Improved Model Free Predictive Current Control for PMSM With Current Prediction Error Variations. IEEE Access, 2022, 10, 54537-54548. | 4.2 | 9 |
| 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 | 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 |
| 30 | 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 |
| 31 | Analysis of stator winding inter-turn short circuit fault of PMSM for electric vehicle based on finite element simulation. , 2014, , . | | 5 |
| 32 | A computationally efficient surrogate model based robust optimization for permanent magnet synchronous machines. IEEE Transactions on Energy Conversion, 2022, , 1-1. | 5.2 | 5 |
| 33 | 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 |
| 34 | Speed identification about enhanced magnetism motor with MRAS. , 2008, , . | | 3 |
| 35 | Compilation of dynamic efficiency test cycle for motor propulsion system on hybrid electric vehicle. , 2010, , . | | 3 |
| 36 | Multi-Variable Thermal Modeling of Power Devices Considering Mutual Coupling. Applied Sciences (Switzerland), 2019, 9, 3240. | 2.5 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Predictive current control for SynRM drives under low dc link voltage. , 2019, , . | | 3 |
| 38 | Computationally Efficient PM Power Loss Mapping for PWM Drive Surface-Mounted Permanent Magnet Synchronous Machines. Applied Sciences (Switzerland), 2021, 11, 3246. | 2.5 | 3 |
| 39 | A method to estimate the worst-case torque ripple under manufacturing uncertainties for permanent magnet synchronous machines. , 2020, , . | | 3 |
| 40 | Robust Sliding Mode Control of the Permanent Magnet Synchronous Motor with an Improved Power Reaching Law. Energies, 2022, 15, 1935. | 3.1 | 3 |
| 41 | A Permanent Magnet Assembling Approach to Mitigate the Cogging Torque for Permanent Magnet Machines Considering Manufacturing Uncertainties. Energies, 2022, 15, 2154. | 3.1 | 3 |
| 42 | Motion simulation and optimization design of double-front axle steering system based on ADAMS. , 2014, , . | | 2 |
| 43 | 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 |
| 44 | Loss analysis of rotor magnet with PWM controller switching frequency variation. , 2014, , . | | 2 |
| 45 | An optimal control allocation strategy for an eight in-wheel-motor drive electric vehicle. , 2017, , . | | 2 |
| 46 | Design and thermal analysis of traction motor for electric vehicle based on driving duty cycle. , 2010, , . | | 1 |
| 47 | Fuzzy PID control for boom energy recovery on hybrid hydraulic excavator. , 2011, , . | | 1 |
| 48 | Control allocation in the dynamic control of an eight in-wheel motored vehicle. , 2014, , . | | 1 |
| 49 | Analysis of optimal power management strategy for series plug-in hybrid electric vehicles via Dynamic Programming. , 2014, , . | | 1 |
| 50 | Handling characteristics of a four-axle electric vehicle. , 2014, , . | | 1 |
| 51 | The electromagnetic losses analysis of surface-mounted brushless AC PM machine driven by PWM. , 2014, , . | | 1 |
| 52 | 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 |
| 53 | Core loss analysis of permanent magnet synchronous motor for electric vehicle based on experimental test curves. , 2010, , . | | 0 |
| 54 | Power system dynamic stability analysis of electro-mechanical transmission. , 2014, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|----|-----------|
| 55 | Research on steady and transient characteristics of 4-axle vehicle handling. , 2014, , . | | 0 |
| 56 | Junction temperature estimation model of insulated gate bipolar transistor power module in three-phase inverter. , 2017, , . | | 0 |