

Luming Cheng

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Implementation of Postfault Decoupling Vector Control and Mitigation of Current Ripple for Five-Phase Fault-Tolerant PM Machine Under Single-Phase Open-Circuit Fault. IEEE Transactions on Power Electronics, 2018, 33, 8623-8636. | 7.9 | 51 |
| 2 | Influence of Third Harmonic Back EMF on Modeling and Remediation of Winding Short Circuit in a Multiphase PM Machine With FSCWs. IEEE Transactions on Industrial Electronics, 2016, 63, 6031-6041. | 7.9 | 36 |
| 3 | Analysis and Optimization of a Novel Tubular Staggered-Tooth Transverse-Flux PM Linear Machine. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 31 |
| 4 | A Novel Variable-Flux Permanent-Magnet Synchronous Machine With Quasi-Series Magnet Configuration and Passive Flux Barrier. IEEE Transactions on Magnetics, 2018, 54, 1-5. | 2.1 | 23 |
| 5 | Multiphase Modular Fault-Tolerant Permanent-Magnet Machine With Hybrid Single/Double-Layer Fractional-Slot Concentrated Winding. IEEE Transactions on Magnetics, 2019, 55, 1-6. | 2.1 | 22 |
| 6 | Third Harmonic Current Injection in Different Operating Stages of Five-Phase PMSM With Hybrid Single/Double Layer Fractional-Slot Concentrated Winding. IEEE Access, 2021, 9, 15670-15685. | 4.2 | 22 |
| 7 | Investigation of Magnetically Isolated Multiphase Modular Permanent-Magnet Synchronous Machinery Series for Wheel-Driving Electric Vehicles. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 2.1 | 19 |
| 8 | Analysis of a Novel Hybrid-PM Variable-Flux Machine Using New Magnet Material CeFeB. IEEE Transactions on Magnetics, 2019, 55, 1-7. | 2.1 | 19 |
| 9 | Thermal analysis and experimental verification of a staggered-teeth transverse-flux permanent-magnet linear machine. IET Electric Power Applications, 2018, 12, 1048-1057. | 1.8 | 17 |
| 10 | Research on a Tubular Yokeless Linear PM Machine. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 9 |
| 11 | Influence of Stator MMF Harmonics on the Utilization of Reluctance Torque in Six-Phase PMA-SynRM with FSCW. Energies, 2018, 11, 108. | 3.1 | 9 |
| 12 | Thermal Analysis of a Novel Cylindrical Transverse-Flux Permanent-Magnet Linear Machine. Energies, 2015, 8, 7874-7896. | 3.1 | 8 |
| 13 | Analysis and Experimental Evaluation of Harmonic Leakage Inductance for Polyphase PM Machines Having Close Slot and Pole Combinations. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 8 |
| 14 | Short-Circuit Fault Detection for a Five-Phase 30-Slot/32-Pole Permanent-Magnet Synchronous Machine. , 2018, , . | | 8 |
| 15 | Investigation of a Magnetic-Field Modulated Brushless Double-Rotor Machine With the Same Polarity of PM Rotor. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 6 |
| 16 | Design and optimization of five-phase fault-tolerant in-wheel permanent machine with low mutual-inductance. , 2014, , . | | 5 |
| 17 | Comparative Investigations of Inverter Short-Circuit Fault and Winding Terminal Short-Circuit Fault in Open-End Winding Five-Phase PM Machine System. IEEE Transactions on Magnetics, 2021, 57, 1-5. | 2.1 | 5 |
| 18 | A New Magnetic-Field-Modulated Brushless Double-Rotor Machine. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 4 |

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|----|--|-----|-----------|
| 19 | Performance Analysis and Modeling of a Tubular Staggered-Tooth Transverse-Flux PM Linear Machine. Energies, 2016, 9, 163. | 3.1 | 4 |
| 20 | Research on a four-phase fault-tolerant PMSM used for EVs. , 2014, , . | | 3 |
| 21 | Design and analytical inductance calculations of five-phase fault-tolerant permanent-magnet Machine. , 2014, , . | | 3 |
| 22 | A single-phase axially-magnetized permanent-magnet oscillating machine for miniature aerospace power sources. AIP Advances, 2017, 7, . | 1.3 | 3 |
| 23 | Improvement of a Hybrid-PM Interior-PMSM with Six-Phase FSCW for EV Application. , 2018, , . | | 3 |
| 24 | Comparative study of hybrid-PM variable-flux machines with different series PM configurations. AIP Advances, 2019, 9, . | 1.3 | 3 |
| 25 | Compensation Strategy Based on Rotating Rhombus Method for Five-Phase PMSM With One-Phase Terminal Short-Circuit Fault. IEEE Transactions on Magnetics, 2021, 57, 1-5. | 2.1 | 3 |
| 26 | Analyze and Design of Six Phase Fault-Tolerant PMSM with Novel Slot Opening Distribution. , 2020, , . | | 3 |
| 27 | A tubular hybrid Halbach/axially-magnetized permanent-magnet linear machine. AIP Advances, 2017, 7, 056629. | 1.3 | 2 |
| 28 | A Consequent-Pole Five-Phase Fault-Tolerant Permanent-Magnet Synchronous Machine for Electric Vehicles. , 2018, , . | | 2 |
| 29 | Comparison of Five-Phase and Three-Phase PMSMs with Identical Silicon Steel Laminations. , 2019, , . | | 2 |
| 30 | Design of a novel electromagnetic planetary gear used for hybrid electric vehicles. , 2014, , . | | 1 |
| 31 | Research on a Four-Phase Fault-Tolerant Permanent-Magnet Machine for Aerospace Application. , 2018, , . | | 1 |
| 32 | Magnetic system study of a Halbach compound-structure PMSM used for hybrid electric vehicles. , 2014, , . | | 0 |
| 33 | Design Method and Performance Evaluation of Modular Multiphase PMSM with Hybrid Single/Double Layer Fractional-Slot Concentrated Winding. , 2021, , . | | 0 |
| 34 | Design Method and Performance Evaluation of Modular Multiphase PMSM with Hybrid Single/Double Layer Fractional-Slot Concentrated Winding. Journal of Electrical Engineering and Technology, 0, , . | 2.0 | 0 |