

Ping Zheng

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118
papers

1,101
citations

18
h-index

27
g-index

173
ext. papers

1,413
ext. citations

3.3
avg, IF

4.67
L-index

| # | Paper | IF | Citations |
|-----|--|-----|-----------|
| 118 | Characteristic Analysis and Verification of the Magnetic-Field-Modulated Brushless Double-Rotor Machine. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 4023-4033 | 8.9 | 84 |
| 117 | Research on the Cooling System of a 4QT Prototype Machine Used for HEV. <i>IEEE Transactions on Energy Conversion</i> , 2008 , 23, 61-67 | 5.4 | 61 |
| 116 | Investigation of a Novel Radial Magnetic-Field-Modulated Brushless Double-Rotor Machine Used for HEVs. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 1231-1241 | 2 | 54 |
| 115 | Open-Circuit Fault-Tolerant Control of Five-Phase PM Machine Based on Reconfiguring Maximum Round Magnetomotive Force. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 48-59 | 8.9 | 51 |
| 114 | Magnetic Characteristics Investigation of an Axial-Axial Flux Compound-Structure PMSM Used for HEVs. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 2191-2194 | 2 | 45 |
| 113 | Investigation of a Novel 24-Slot/14-Pole Six-Phase Fault-Tolerant Modular Permanent-Magnet In-Wheel Motor for Electric Vehicles. <i>Energies</i> , 2013 , 6, 4980-5002 | 3.1 | 43 |
| 112 | Implementation of Postfault Decoupling Vector Control and Mitigation of Current Ripple for Five-Phase Fault-Tolerant PM Machine Under Single-Phase Open-Circuit Fault. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 8623-8636 | 7.2 | 36 |
| 111 | Electromagnetic Design and Control Strategy of an Axially Magnetized Permanent-Magnet Linear Alternator for Free-Piston Stirling Engines. <i>IEEE Transactions on Industry Applications</i> , 2012 , 48, 2230-2239 | 4.3 | 34 |
| 110 | Performance Analysis of an Axial Magnetic-Field-Modulated Brushless Double-Rotor Machine for Hybrid Electric Vehicles. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 806-817 | 8.9 | 30 |
| 109 | A Brushless Claw-Pole Double-Rotor Machine for Power-Split Hybrid Electric Vehicles. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 4295-4305 | 8.9 | 25 |
| 108 | Influence of Third Harmonic Back EMF on Modeling and Remediation of Winding Short Circuit in a Multiphase PM Machine With FSCWs. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 6031-6041 | 8.9 | 24 |
| 107 | Research on the Magnetic Characteristic of a Novel Transverse-Flux PM Linear Machine Used for Free-Piston Energy Converter. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 1082-1085 | 2 | 23 |
| 106 | Research on the Parameters and Performances of a 4QT Prototype Machine Used for HEV. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 443-446 | 2 | 22 |
| 105 | Analytical Modeling of Interturn Short Circuit for Multiphase Fault-Tolerant PM Machines With Fractional Slot Concentrated Windings. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 1994-2006 | 4.3 | 21 |
| 104 | Research on a Tubular Longitudinal Flux PM Linear Generator Used for Free-Piston Energy Converter. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 447-449 | 2 | 21 |
| 103 | Analysis and Optimization of a Novel Tubular Staggered-Tooth Transverse-Flux PM Linear Machine. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4 | 2 | 20 |
| 102 | Research on an Axial Magnetic-Field-Modulated Brushless Double Rotor Machine. <i>Energies</i> , 2013 , 6, 4799-4829 | 2.0 | 20 |

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| 101 | Research on a Transverse-Flux Brushless Double-Rotor Machine for Hybrid Electric Vehicles. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 1032-1043 | 8.9 | 19 |
| 100 | Analysis and Design of a Transverse-Flux Dual Rotor Machine for Power-Split Hybrid Electric Vehicle Applications. <i>Energies</i> , 2013 , 6, 6548-6568 | 3.1 | 17 |
| 99 | Research on the High Power Density Electromagnetic Propeller. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 355-358 | 2 | 17 |
| 98 | Design and Analysis of a Magnetic-Field Modulated Brushless Double-Rotor Machine Part I: Pole Pair Combination of Stator, PM Rotor and Magnetic Blocks. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 2540-2549 | 8.9 | 16 |
| 97 | Investigation of Magnetically Isolated Multiphase Modular Permanent-Magnet Synchronous Machinery Series for Wheel-Driving Electric Vehicles. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4 | 2 | 16 |
| 96 | Design and Experimental Verification of a Short-Circuit Proof Six-Phase Permanent Magnet Machine for Safety Critical Applications. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4 | 2 | 15 |
| 95 | Experimental Evaluation of a Radial-Radial-Flux Compound-Structure Permanent-Magnet Synchronous Machine Used for HEVs. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 645-649 | 2 | 14 |
| 94 | A Tubular Staggered-Teeth Transverse-Flux PMLM With Circumferentially Distributed Three-Phase Windings. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 4837-4848 | 8.9 | 12 |
| 93 | A novel single-phase flux-switching permanent magnet linear generator used for free-piston Stirling engine. <i>Journal of Applied Physics</i> , 2014 , 115, 17E711 | 2.5 | 11 |
| 92 | Performance Analysis and Simulation of a Novel Brushless Double Rotor Machine for Power-Split HEV Applications. <i>Energies</i> , 2012 , 5, 119-137 | 3.1 | 11 |
| 91 | Demagnetization and Permanent-Magnet Minimization Analyses of Less-Rare-Earth Interior Permanent-Magnet Synchronous Machines Used for Electric Vehicles. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5 | 2 | 11 |
| 90 | Influence of static eccentricity on unbalanced magnetic force of external rotor permanent magnet brushless direct current motor used as In-wheel motor. <i>IET Electric Power Applications</i> , 2019 , 13, 538-550 | 1.8 | 10 |
| 89 | A Novel Variable-Flux Permanent-Magnet Synchronous Machine With Quasi-Series Magnet Configuration and Passive Flux Barrier. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5 | 2 | 10 |
| 88 | Thermal analysis and experimental verification of a staggered-teeth transverse-flux permanent-magnet linear machine. <i>IET Electric Power Applications</i> , 2018 , 12, 1048-1057 | 1.8 | 10 |
| 87 | Multiphase Modular Fault-Tolerant Permanent-Magnet Machine With Hybrid Single/Double-Layer Fractional-Slot Concentrated Winding. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-6 | 2 | 10 |
| 86 | Third Harmonic Current Injection in Different Operating Stages of Five-Phase PMSM With Hybrid Single/Double Layer Fractional-Slot Concentrated Winding. <i>IEEE Access</i> , 2021 , 9, 15670-15685 | 3.5 | 9 |
| 85 | Analysis of a Novel Hybrid-PM Variable-Flux Machine Using New Magnet Material CeFeB. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-7 | 2 | 8 |
| 84 | Investigation Into a Magnetic-Field-Modulated Brushless Double-Rotor Machine With the High-Strength and Low-Loss Modulating Ring Rotor. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-4 | 2 | 8 |

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| 83 | Characteristic Analysis and Functional Validation of a Brushless Flux-Modulated Double-Rotor Machine for HEVs. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 663-673 | 8.9 | 8 |
| 82 | Design and Analysis of a Magnetic-Field Modulated Brushless Double-Rotor Machine Part II: Winding Configuration. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 2550-2560 | 8.9 | 8 |
| 81 | Research on electromagnetic performance of an axial magnetic-field-modulated brushless double-rotor machine for hybrid electric vehicles 2014 , | | 8 |
| 80 | Widely developing electric launch technology in China. <i>IEEE Transactions on Magnetics</i> , 2003 , 39, 39-41 | 2 | 8 |
| 79 | Investigation of the winding current distribution in a 4-quadrant-transducer prototype machine. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 1972-1975 | 2 | 8 |
| 78 | Diagnosis and Remediation of Single-Turn Short Circuit in a Multiphase FSCW PM Machine Based on T-type Equivalent Circuit. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 158-169 | 4.3 | 8 |
| 77 | Analysis of Novel Hybrid-PM Variable-Flux PMSMs With SeriesParallel Magnetic Circuits. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-6 | 2 | 8 |
| 76 | Research on a Tubular Yokeless Linear PM Machine. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4 | 2 | 7 |
| 75 | A Novel Sensorless Control Strategy for Brushless Direct Current Motor Based on the Estimation of Line Back Electro-Motive Force. <i>Energies</i> , 2017 , 10, 1384 | 3.1 | 7 |
| 74 | Modeling and Control of a Flux-Modulated Compound-Structure Permanent-Magnet Synchronous Machine for Hybrid Electric Vehicles. <i>Energies</i> , 2012 , 5, 45-57 | 3.1 | 7 |
| 73 | Research on electromagnetic performance of a novel radial magnetic-field-modulated brushless double-rotor machine 2011 , | | 7 |
| 72 | Investigation of the Power Factor of Magnetic-Field Modulated Brushless Double-Rotor Machine. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 423-432 | 7.2 | 7 |
| 71 | Effects of static eccentricity on the no-load back electromotive force of external rotor permanent magnet brushless DC motor used as in-wheel motor. <i>IET Electric Power Applications</i> , 2019 , 13, 604-613 | 1.8 | 6 |
| 70 | Analysis of Magnetic Properties of AlNiCo and Magnetization State Estimation in Variable-Flux PMSMs. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-6 | 2 | 6 |
| 69 | Design and transient behavior of magnetic gears. <i>Journal of Applied Physics</i> , 2014 , 115, 17E706 | 2.5 | 6 |
| 68 | Experimental Study of Compound-Structure Permanent-Magnet Synchronous Machine Used for HEVs. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 807-810 | 2 | 6 |
| 67 | Field weakening capability investigation of an axial flux permanent-magnet synchronous machine with radially sliding permanent magnets used for electric vehicles. <i>Journal of Applied Physics</i> , 2012 , 111, 07A719 | 2.5 | 6 |
| 66 | Analytical Investigation of the Magnetic-Field Distribution in an Axial Magnetic-Field-Modulated Brushless Double-Rotor Machine. <i>Energies</i> , 2016 , 9, 589 | 3.1 | 6 |

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| 65 | Tubular unified magnetic-field flux-switching PMLM for free-piston energy converter. <i>IET Electric Power Applications</i> , 2019 , 13, 625-634 | 1.8 | 5 |
| 64 | Analysis and Experimental Evaluation of Harmonic Leakage Inductance for Polyphase PM Machines Having Close Slot and Pole Combinations. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4 | 2 | 5 |
| 63 | Magnetic Decoupling Design and Experimental Validation of a Radial-Radial Flux Compound-Structure Permanent-Magnet Synchronous Machine for HEVs. <i>Energies</i> , 2012 , 5, 4027-4039 | 3.1 | 5 |
| 62 | Experimental Evaluation of a Radial-Radial-Flux Compound-Structure Permanent-Magnet Synchronous Machine Used for HEVs 2008 , | | 5 |
| 61 | Investigation of a less rare-earth permanent-magnet machine with the consequent pole rotor. <i>AIP Advances</i> , 2018 , 8, 056626 | 1.5 | 5 |
| 60 | An Easy-to-Implement Hysteresis Model Identification Method Based on Support Vector Regression. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4 | 2 | 4 |
| 59 | Research on the vector control strategy of five-phase permanent-magnet synchronous machine based on third-harmonic current injection 2017 , | | 4 |
| 58 | Research on Control Strategy of Free-Piston Stirling Power Generating System. <i>Energies</i> , 2017 , 10, 1609 | 3.1 | 4 |
| 57 | Investigation of the Magnetic Circuit and Performance of Less-Rare-Earth Interior Permanent-Magnet Synchronous Machines Used for Electric Vehicles. <i>Energies</i> , 2017 , 10, 2173 | 3.1 | 4 |
| 56 | Thermal Analysis of a Novel Cylindrical Transverse-Flux Permanent-Magnet Linear Machine. <i>Energies</i> , 2015 , 8, 7874-7896 | 3.1 | 4 |
| 55 | Low-Loss Design and Analysis of Magnetic-Field Modulated Brushless Double-Rotor Machine. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5 | 2 | 4 |
| 54 | Short-Circuit Fault-Tolerant Control without Constraint on D-Axis Armature Magnetomotive Force for Five-Phase PMSM. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1 | 8.9 | 4 |
| 53 | Investigation of a tubular dual-stator flux-switching permanent-magnet linear generator for free-piston energy converter. <i>Journal of Applied Physics</i> , 2015 , 117, 17B519 | 2.5 | 3 |
| 52 | Investigation of a Magnetic-Field Modulated Brushless Double-Rotor Machine With the Same Polarity of PM Rotor. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4 | 2 | 3 |
| 51 | Investigation of a five-phase 20-slot/18-pole PMSM for electric vehicles 2014 , | | 3 |
| 50 | Research on control strategy of free-piston stirling-engine linear-generator system 2014 , | | 3 |
| 49 | Research on dual-plane vector control of fivephase fault-tolerant permanent magnet machine 2014 , | | 3 |
| 48 | An axial magnetic-field-modulated brushless double-rotor machine for hybrid electric vehicles 2014 , | | 3 |

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| 47 | Magnetic circuit and torque analysis of a brushless transverse flux dual-rotor machine used for HEVs 2014 , | | 3 |
| 46 | The electromagnetic propeller based on a five-phase fault-tolerant permanent-magnet machine 2012 , | | 3 |
| 45 | Comparison and evaluation of different compound-structure permanent-magnet synchronous machine used for HEVs 2010 , | | 3 |
| 44 | Comprehensive research on compound-structure permanent-magnet synchronous machine system used for HEVs 2010 , | | 3 |
| 43 | Evaluation of performance and magnetic characteristics of a radial-radial flux compound-structure permanent-magnet synchronous machine used for hybrid electric vehicle. <i>Journal of Applied Physics</i> , 2008 , 103, 07F130 | 2.5 | 3 |
| 42 | Research on the Control of a Radial-Radial Flux Compound-Structure Permanent-Magnet Synchronous Machine Used for HEVs 2008 , | | 3 |
| 41 | Pole optimization of brushless DC motor | | 3 |
| 40 | A single-phase axially-magnetized permanent-magnet oscillating machine for miniature aerospace power sources. <i>AIP Advances</i> , 2017 , 7, 056659 | 1.5 | 2 |
| 39 | Investigation of low space harmonic six-phase PMSM with FSCWS for electric vehicle applications 2017 , | | 2 |
| 38 | Electromagnetic and mechanical analyses of less-rare-earth interior permanent-magnet synchronous machine used for electric vehicles 2017 , | | 2 |
| 37 | Research on system control and energy management strategy of flux-modulated compound-structure permanent magnet synchronous machine. <i>CES Transactions on Electrical Machines and Systems</i> , 2017 , 1, 100-108 | 2.3 | 2 |
| 36 | A New Magnetic-Field-Modulated Brushless Double-Rotor Machine. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4 | 2 | 2 |
| 35 | Design and optimization of five-phase fault-tolerant in-wheel permanent machine with low mutual-inductance 2014 , | | 2 |
| 34 | Design and analytical inductance calculations of five-phase fault-tolerant permanent-magnet Machine 2014 , | | 2 |
| 33 | Analysis and Experiment of a Novel Brushless Double Rotor Machine for Power-Split Hybrid Electrical Vehicle Applications. <i>Energies</i> , 2013 , 6, 3209-3223 | 3.1 | 2 |
| 32 | Torque ripple reduction in an interior permanent-magnet synchronous motor for servo applications 2011 , | | 2 |
| 31 | Compensation Strategy Based on Rotating Rhombus Method for Five-Phase PMSM With One-Phase Terminal Short-Circuit Fault. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-5 | 2 | 2 |
| 30 | A Novel Variable-Flux PMSM with Parallel Hybrid Magnets Capable of Operating in a Wide Speed Range 2019 , | | 2 |

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| 29 | Comparative study of hybrid-PM variable-flux machines with different series PM configurations. <i>AIP Advances</i> , 2019 , 9, 125241 | 1.5 | 2 |
| 28 | Investigation of an Integrated Magnetic-Field-Modulated Brushless Double-Rotor Machine With an Improved PM Rotor. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-6 | 2 | 2 |
| 27 | A tubular hybrid Halbach/axially-magnetized permanent-magnet linear machine. <i>AIP Advances</i> , 2017 , 7, 056629 | 1.5 | 1 |
| 26 | Six-phase fault-tolerant permanent magnet motor drives with reduced switch counts: Topology comparisons and hardware demonstration 2015 , | | 1 |
| 25 | Research on a four-phase fault-tolerant PMSM used for EVs 2014 , | | 1 |
| 24 | Function validations of a radial-radial flux compound-structure permanent-magnet synchronous machine for HEVs 2010 , | | 1 |
| 23 | Design and Analysis of Compound-Structure Permanent-Magnet Synchronous Machine Used for Hybrid Electric Vehicles 2010 , | | 1 |
| 22 | Optimization on thrust ripple of an axial-flux permanent-magnet linear synchronous machine 2011 , | | 1 |
| 21 | The simulation design of parameters optimization on tubular linear motor with optimal output force 2016 , | | 1 |
| 20 | Comparison of Vernier Machines with Different Rotor PM Configurations 2019 , | | 1 |
| 19 | A High-Torque-Density Variable-Flux Memory Machine Utilizing Novel (Ce, Nd)-Fe-B Magnets. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-6 | 2 | 1 |
| 18 | Investigation of a Dual-Winding Dual-Flux-Concentrated Magnetic-Field Modulated Brushless Compound-Structure Machine. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1 | 2 | 1 |
| 17 | Analysis and Optimization of a V-Shape Combined Pole Interior Permanent-Magnet Synchronous Machine With Temperature Rise and Demagnetization Considered. <i>IEEE Access</i> , 2021 , 9, 64761-64775 | 3.5 | 1 |
| 16 | Analytical Modeling of an Axial Flux Magnetic-Geared Double-Rotor Machine with Interior-Modulating-Rotor. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1 | 2 | 1 |
| 15 | Optimization and Mechanical Strength Analysis of Less-Rare-Earth Interior Permanent-Magnet Synchronous Machines Used for Electric Vehicles 2018 , | | 1 |
| 14 | Short-Circuit Fault Detection for a Five-Phase 30-Slot/32-Pole Permanent-Magnet Synchronous Machine 2018 , | | 1 |
| 13 | Comparative Investigations of Inverter Short-Circuit Fault and Winding Terminal Short-Circuit Fault in Open-End Winding Five-Phase PM Machine System. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-5 | 2 | 1 |
| 12 | Study of a High-Efficiency Series-Parallel-Connected Hybrid-PM Variable-Flux Permanent Magnet Synchronous Machine. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1 | 2 | 0 |

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| 11 | A Novel High Torque Density Dual Three-Phase PMSM with Low Space Harmonic Content. <i>IEEE Transactions on Magnetics</i> , 2022 , 1-1 | 2 | 0 |
| 10 | Trajectory-Regulation-Based Segmented Control for Dead Center Positions Tracking of Free-Piston Linear Generator. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1 | 8.9 | 0 |
| 9 | Research on the relation between the propulsive force and magnetic system of the coil launcher based on the mechanism of hybrid switched reluctance motor. <i>IEEE Transactions on Magnetics</i> , 2003 , 39, 116-119 | 2 | |
| 8 | Design and Analysis of a Novel Tubular High-PM-Utilization Transverse-Flux Linear Machine. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1 | 2 | |
| 7 | . <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1 | 8.9 | |
| 6 | Design Methodologies for Variable-Flux Machines with Extra Torque-Speed Range. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1 | 2 | |
| 5 | . <i>IEEE Access</i> , 2021 , 9, 121445-121455 | 3.5 | |
| 4 | Design, modelling and analysis of a hybrid-magnet variable-flux PMSM with variable series-parallel magnetic circuit. <i>Energy Reports</i> , 2022 , 8, 1200-1209 | 4.6 | |
| 3 | Force Modeling and Analysis of a Tube Flux-Switching Transverse-Flux Permanent Magnet Linear Motor. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1 | 4.3 | |
| 2 | Five-Phase Hybrid Single/Double Layer Fractional Slot Winding PMSM for Torque Improvement under Third Harmonic Current Injection Condition. <i>IEEE Transactions on Magnetics</i> , 2022 , 1-1 | 2 | |
| 1 | Active Damping Current Control for Current-Source Inverter-Based PMSM Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1 | 8.9 | |