

Yunkai Huang

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | A General Single-Sensor Damping Framework for <i>LCL</i> -Equipped High-Speed PMSM Drives. IEEE Transactions on Industrial Electronics, 2023, 70, 5375-5380. | 7.9 | 1 |
| 2 | Dynamic-Decoupled Active Damping Control Method for Improving Current Transient Behavior of <i>LCL</i> -Equipped High-Speed PMSMs. IEEE Transactions on Power Electronics, 2022, 37, 3259-3271. | 7.9 | 10 |
| 3 | A Novel Hybrid Analytical Model of Active Magnetic Bearing Considering Rotor Eccentricity and Local Saturation Effect. IEEE Transactions on Industrial Electronics, 2022, 69, 7151-7160. | 7.9 | 7 |
| 4 | Online Inductance Identification Using PWM Current Ripple for Position Sensorless Drive of High-Speed Surface-Mounted Permanent Magnet Synchronous Machines. IEEE Transactions on Industrial Electronics, 2022, 69, 12426-12436. | 7.9 | 15 |
| 5 | Discrete-Time Dynamic-Decoupled Current Control for <i>LCL</i> -Equipped High-Speed Permanent Magnet Synchronous Machines. IEEE Transactions on Industrial Electronics, 2022, 69, 12414-12425. | 7.9 | 4 |
| 6 | Nonlinear Semianalytical Model for Axial Flux Permanent-Magnet Machine. IEEE Transactions on Industrial Electronics, 2022, 69, 9804-9816. | 7.9 | 13 |
| 7 | Investigation on Broadening Compressor Surge Margin by Using Active Magnetic Bearing. Shock and Vibration, 2022, 2022, 1-13. | 0.6 | 0 |
| 8 | Analysis and Verification of the Method of Improving Inductance by Magnetic Endcaps in Slotless Permanent Magnet Motor. Machines, 2022, 10, 274. | 2.2 | 0 |
| 9 | Magnetic Field Calculation in Axial Flux Permanent Magnet Motor With Rotor Eccentricity. IEEE Transactions on Magnetics, 2022, 58, 1-4. | 2.1 | 6 |
| 10 | Comprehensive Design and Analysis of Rotor Stress for HSPMM Considering Cooling Method. Machines, 2022, 10, 475. | 2.2 | 2 |
| 11 | Improved Position Sensorless Drive Method for IPMSM Based on Fully Discretized Model and Inductance Identification Utilizing Current Ripple. IEEE Transactions on Power Electronics, 2022, 37, 13250-13263. | 7.9 | 1 |
| 12 | A Sliding-Mode Position Estimation Method With Chattering Suppression for <i>LCL</i> -Equipped High-Speed Surface-Mounted PMSM Drives. IEEE Transactions on Power Electronics, 2021, , 1-1. | 7.9 | 12 |
| 13 | Compensation Method of Position Estimation Error for High-Speed Surface-Mounted PMSM Drives Based on Robust Inductance Estimation. IEEE Transactions on Power Electronics, 2021, , 1-1. | 7.9 | 10 |
| 14 | Simplified Quadratic Optimization-Based IPMSM Full-Speed Range Rotor Position Estimation in Synchronous Rotating Frame. IEEE Transactions on Transportation Electrification, 2021, 7, 1527-1536. | 7.8 | 0 |
| 15 | An Improved Robust Deadbeat Predictive Current Control without Computational Delay. , 2021, , . | | 0 |
| 16 | Analytical Modeling of Misalignment in Axial Flux Permanent Magnet Machine. IEEE Transactions on Industrial Electronics, 2020, 67, 4433-4443. | 7.9 | 23 |
| 17 | An Improved Deadbeat Predictive Current Control With Online Parameter Identification for Surface-Mounted PMSMs. IEEE Transactions on Industrial Electronics, 2020, 67, 10145-10155. | 7.9 | 68 |
| 18 | Position Estimation Method of IPMSM in Full Speed Range by Simplified Quadratic Optimization. IEEE Access, 2020, 8, 109964-109975. | 4.2 | 3 |

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| 19 | Rotor Eddy Current Loss Reduction With Permeable Retaining Sleeve for Permanent Magnet Synchronous Machine. IEEE Transactions on Energy Conversion, 2020, 35, 1088-1097. | 5.2 | 20 |
| 20 | Position Sensorless Drive and Online Parameter Estimation for Surface-Mounted PMSMs Based on Adaptive Full-State Feedback Control. IEEE Transactions on Power Electronics, 2020, 35, 7341-7355. | 7.9 | 33 |
| 21 | PM Hub Motor Design for Electric Two-Wheelers Based on Measured Driving Cycles. , 2020, , . | | 2 |
| 22 | An Improved Composite Position Controller based on Discrete-Time Terminal Sliding Mode Control for PMSM Servo System. , 2020, , . | | 0 |
| 23 | PMSM Speed Control for Forging Machine Based on Iterative Learning Control Method. , 2020, , . | | 2 |
| 24 | An On-line Detection Method for Single-Phase Inter-Turn Fault Occurring in High-Speed PMSM. , 2020, , . | | 4 |
| 25 | Investigation Study of the Influence of Pole Numbers on Torque Density and Flux-Weakening Ability of Fractional Slot Concentrated Winding Wheel-Hub Machines. IEEE Access, 2019, 7, 84918-84928. | 4.2 | 6 |
| 26 | Sliding Mode Control with Neural Network for Active Magnetic Bearing System. , 2019, , . | | 3 |
| 27 | Research on Fault Identification Method of Dry-type Transformers Based on Support Vector Machine. , 2019, , . | | 1 |
| 28 | Position Sensorless Control of IPMSM Based on Quasi-Newton Methods. , 2019, , . | | 2 |
| 29 | Stepwise Magnetization Control Strategy for DC-Magnetized Memory Machine. IEEE Transactions on Industrial Electronics, 2019, 66, 4273-4285. | 7.9 | 18 |
| 30 | A New Hybrid Method for Magnetic Field Calculation in IPMSM Accounting for Any Rotor Configuration. IEEE Transactions on Industrial Electronics, 2019, 66, 5015-5024. | 7.9 | 30 |
| 31 | General Analytical Modeling for Magnet Demagnetization in Surface Mounted Permanent Magnet Machines. IEEE Transactions on Industrial Electronics, 2019, 66, 5830-5838. | 7.9 | 34 |
| 32 | Novel Dual-Stator Switched-Flux Memory Machines With Hybrid Magnets. IEEE Transactions on Industry Applications, 2018, 54, 2129-2140. | 4.9 | 5 |
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| 34 | Synthesis of Hybrid Magnet Memory Machines Having Separate Stators for Traction Applications. IEEE Transactions on Vehicular Technology, 2018, 67, 183-195. | 6.3 | 17 |
| 35 | Discrete-Time Current Control of Modular Multilevel Converter for Medium Voltage High Power High-Speed PMSM. , 2018, , . | | 3 |
| 36 | Position and Capacitor Voltage Sensorless Control of High-Speed Surface-Mounted PMSM Drive with Output Filter. , 2018, , . | | 7 |

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| 37 | Position Sensorless Drive of High Speed Permanent Magnet Synchronous Motor. , 2018, , . | | 8 |
| 38 | Novel Dual-Stator Machines With Biased Permanent Magnet Excitation. IEEE Transactions on Energy Conversion, 2018, 33, 2070-2080. | 5.2 | 16 |
| 39 | Analytical Modeling of Manufacturing Imperfections in Double-Rotor Axial Flux PM Machines: Effects on Back EMF. IEEE Transactions on Magnetics, 2017, 53, 1-5. | 2.1 | 19 |
| 40 | 3-D Analytical Analysis of Magnetic Field of Flux Reversal Linear-Rotary Permanent-Magnet Actuator. IEEE Transactions on Magnetics, 2017, 53, 1-5. | 2.1 | 10 |
| 41 | Position Sensorless Control of Switched Reluctance Motor Drives Based on Numerical Method. IEEE Transactions on Industry Applications, 2017, 53, 2159-2168. | 4.9 | 54 |
| 42 | Analysis of On-Load Magnetization Characteristics in a Novel Partitioned Stator Hybrid Magnet Memory Machine. IEEE Transactions on Magnetics, 2017, 53, 1-4. | 2.1 | 9 |
| 43 | Analytical modeling of axial flux PM machines with eccentricities. International Journal of Applied Electromagnetics and Mechanics, 2017, 53, 757-777. | 0.6 | 5 |
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| 45 | A novel flux-reversal hybrid magnet memory machine. , 2017, , . | | 7 |
| 46 | An optimal design of an AFPMSM using analytical approach and particle swarm optimization. , 2017, , . | | 2 |
| 47 | Novel fault-tolerant stator structure for modular PMSMs with fractional-slot overlapping winding. , 2017, , . | | 2 |
| 48 | Active damping control of modular multilevel converter with output filter for high-speed PM motor drive. , 2017, , . | | 3 |
| 49 | Analytical Modeling of Static Eccentricities in Axial Flux Permanent-Magnet Machines with Concentrated Windings. Energies, 2016, 9, 892. | 3.1 | 22 |
| 50 | High-performance partitioned-stator switched flux memory machines with hybrid magnets on external stator for traction applications. , 2016, , . | | 4 |
| 51 | Operating-envelop-expandable control strategy for switched flux hybrid magnet memory machine. , 2016, , . | | 2 |
| 52 | On-load magnetization characteristic analysis of a novel partitioned stator hybrid magnet memory machine. , 2016, , . | | 0 |
| 53 | Novel Partitioned Stator Hybrid Magnet Memory Machines for EV/HEV Applications. , 2016, , . | | 0 |
| 54 | A Linear-Rotary Permanent Magnet Actuator With Independent Magnetic Circuit Structure. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-6. | 1.7 | 7 |

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| 55 | Development of High Torque Low Speed Fractional-Slot Concentrated Windings PMSM for Traction Application. , 2016, , . | | 1 |
| 56 | Analytical modeling of manufacturing imperfections in double rotor axial flux PM machines: Effects on back EMF. , 2016, , . | | 0 |
| 57 | Novel design of a variable reluctance permanent magnet machine with bipolar coil flux-linkage. , 2016, , . | | 0 |
| 58 | Air-Gap Flux Density Characteristics Comparison and Analysis of Permanent Magnet Vernier Machines With Different Rotor Topologies. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5. | 1.7 | 10 |
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| 61 | Novel variable-mode partitioned stator switched flux memory machines for automotive traction applications. , 2016, , . | | 0 |
| 62 | Flux-Concentrated External-Rotor Switched Flux Memory Machines for Direct-Drive Applications. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-6. | 1.7 | 6 |
| 63 | Investigation of design methodology for non-rare-earth variable-flux switched-flux memory machines. IET Electric Power Applications, 2016, 10, 744-756. | 1.8 | 9 |
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| 65 | A novel stator-consequent-pole memory machine. , 2016, , . | | 4 |
| 66 | 3D magnetic field analytical calculation of flux reversal linear-rotary permanent magnet actuator. , 2016, , . | | 0 |
| 67 | Comparative Study of Surface-Mounted and Interior Permanent-Magnet Motors for High-Speed Applications. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4. | 1.7 | 57 |
| 68 | A Variable-Flux Hybrid-PM Switched-Flux Memory Machine for EV/HEV Applications. IEEE Transactions on Industry Applications, 2016, 52, 2203-2214. | 4.9 | 65 |
| 69 | Performance Improvement of Partitioned Stator Switched Flux Memory Machines With Triple-Magnet Configuration. IEEE Transactions on Magnetics, 2016, 52, 1-4. | 2.1 | 8 |
| 70 | Hybrid-Excited Switched-Flux Hybrid Magnet Memory Machines. IEEE Transactions on Magnetics, 2016, 52, 1-15. | 2.1 | 33 |
| 71 | A Winding-Switching Concept for Flux Weakening in Consequent Magnet Pole Switched Flux Memory Machine. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 9 |
| 72 | Comparative Study of Novel Variable-Flux Memory Machines Having Stator Permanent Magnet Topologies. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 21 |

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| 73 | Cogging Torque Optimization of Novel Transverse Flux Permanent Magnet Generator With Double C-Hoop Stator. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 16 |
| 74 | A Novel Transverse Flux Permanent Magnet Generator With Double C-Hoop Stator and Flux-Concentrated Rotor. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 10 |
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| 76 | Electromagnetic and Thermal Analysis of Open-Circuit Air Cooled High-Speed Permanent Magnet Machines With Gramme Ring Windings. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 2.1 | 64 |
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| 78 | Flux-Regulatable Characteristics Analysis of a Novel Switched-Flux Surface-Mounted PM Memory Machine. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 2.1 | 24 |
| 79 | Development of an air-cooled 150 kW high speed permanent magnet motor with Gramme ring windings for turbo blowers. , 2014, , . | | 3 |
| 80 | Research on variable flux permanent magnet pole-changing machine with harmonic excitation. , 2014, , . | | 3 |
| 81 | Novel Flux-Regulatable Dual-Magnet Vernier Memory Machines for Electric Vehicle Propulsion. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5. | 1.7 | 10 |
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| 84 | Linear Representation of Saturation Characteristics Associated With Eddy Currents in Ferromagnetic Materials. IEEE Transactions on Magnetics, 2014, 50, 121-124. | 2.1 | 2 |
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| 87 | Air-Gap Magnetic Field Analysis of Wind Generator With PM Embedded Salient Poles by Analytical and Finite Element Combination Technique. IEEE Transactions on Magnetics, 2014, 50, 777-780. | 2.1 | 2 |
| 88 | Control strategies of current-source inverters for distributed generation under unbalanced grid conditions. , 2012, , . | | 6 |
| 89 | 3-D Analytical Modeling of No-Load Magnetic Field of Ironless Axial Flux Permanent Magnet Machine. IEEE Transactions on Magnetics, 2012, 48, 2929-2932. | 2.1 | 57 |
| 90 | Numerical Analysis of 3D Eddy Current Fields in Laminated Media Under Various Frequencies. IEEE Transactions on Magnetics, 2012, 48, 267-270. | 2.1 | 22 |

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| 91 | Analytical Magnetic Field Analysis and Prediction of Cogging Force and Torque of a Linear and Rotary Permanent Magnet Actuator. IEEE Transactions on Magnetics, 2011, 47, 3004-3007. | 2.1 | 51 |