

# Yunkai Huang

## List of Publications by Year in descending order

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papers

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361413

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docs citations

91  
times ranked

874  
citing authors

#	ARTICLE	IF	CITATIONS
1	A General Analytical Model of Permanent Magnet Eddy Current Couplings. IEEE Transactions on Magnetics, 2014, 50, 1-9.	2.1	79
2	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
3	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
4	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
5	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
6	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
7	Position Sensorless Control of Switched Reluctance Motor Drives Based on Numerical Method. IEEE Transactions on Industry Applications, 2017, 53, 2159-2168.	4.9	54
8	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
9	Analysis of a Novel Switched-Flux Memory Motor Employing a Time-Divisional Magnetization Strategy. IEEE Transactions on Magnetics, 2014, 50, 849-852.	2.1	49
10	Magnetic Equivalent Circuit Modeling of Yokeless Axial Flux Permanent Magnet Machine With Segmented Armature. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	41
11	Design Synthesis of Switched Flux Hybrid-Permanent Magnet Memory Machines. IEEE Transactions on Energy Conversion, 2017, 32, 65-79.	5.2	37
12	General Analytical Modeling for Magnet Demagnetization in Surface Mounted Permanent Magnet Machines. IEEE Transactions on Industrial Electronics, 2019, 66, 5830-5838.	7.9	34
13	Hybrid-Excited Switched-Flux Hybrid Magnet Memory Machines. IEEE Transactions on Magnetics, 2016, 52, 1-15.	2.1	33
14	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
15	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
16	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
17	Analytical Modeling of Misalignment in Axial Flux Permanent Magnet Machine. IEEE Transactions on Industrial Electronics, 2020, 67, 4433-4443.	7.9	23
18	Numerical Analysis of 3D Eddy Current Fields in Laminated Media Under Various Frequencies. IEEE Transactions on Magnetics, 2012, 48, 267-270.	2.1	22

#	ARTICLE	IF	CITATIONS
19	Analytical Modeling of Static Eccentricities in Axial Flux Permanent-Magnet Machines with Concentrated Windings. <i>Energies</i> , 2016, 9, 892.	3.1	22
20	Comparative Study of Novel Variable-Flux Memory Machines Having Stator Permanent Magnet Topologies. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-4.	2.1	21
21	Rotor Eddy Current Loss Reduction With Permeable Retaining Sleeve for Permanent Magnet Synchronous Machine. <i>IEEE Transactions on Energy Conversion</i> , 2020, 35, 1088-1097.	5.2	20
22	Analytical Modeling of Manufacturing Imperfections in Double-Rotor Axial Flux PM Machines: Effects on Back EMF. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-5.	2.1	19
23	Stepwise Magnetization Control Strategy for DC-Magnetized Memory Machine. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 4273-4285.	7.9	18
24	Synthesis of Hybrid Magnet Memory Machines Having Separate Stators for Traction Applications. <i>IEEE Transactions on Vehicular Technology</i> , 2018, 67, 183-195.	6.3	17
25	Cogging Torque Optimization of Novel Transverse Flux Permanent Magnet Generator With Double C-Hoop Stator. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-4.	2.1	16
26	Novel Dual-Stator Machines With Biased Permanent Magnet Excitation. <i>IEEE Transactions on Energy Conversion</i> , 2018, 33, 2070-2080.	5.2	16
27	Online Inductance Identification Using PWM Current Ripple for Position Sensorless Drive of High-Speed Surface-Mounted Permanent Magnet Synchronous Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 12426-12436.	7.9	15
28	Thermal Analysis of the Conical Rotor Motor Using LPTN With Accurate Heat Transfer Coefficients. <i>IEEE Transactions on Applied Superconductivity</i> , 2016, 26, 1-7.	1.7	13
29	Analytical Modeling of Switched Flux Memory Machine. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-5.	2.1	13
30	Nonlinear Semianalytical Model for Axial Flux Permanent-Magnet Machine. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 9804-9816.	7.9	13
31	Novel switched-flux hybrid permanent magnet memory machines for EV/HEV applications. , 2014, , .		12
32	A Sliding-Mode Position Estimation Method With Chattering Suppression for LCL-Equipped High-Speed Surface-Mounted PMSM Drives. <i>IEEE Transactions on Power Electronics</i> , 2021, , 1-1.	7.9	12
33	Novel Flux-Regulatable Dual-Magnet Vernier Memory Machines for Electric Vehicle Propulsion. <i>IEEE Transactions on Applied Superconductivity</i> , 2014, 24, 1-5.	1.7	10
34	A Novel Transverse Flux Permanent Magnet Generator With Double C-Hoop Stator and Flux-Concentrated Rotor. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-4.	2.1	10
35	Air-Gap Flux Density Characteristics Comparison and Analysis of Permanent Magnet Vernier Machines With Different Rotor Topologies. <i>IEEE Transactions on Applied Superconductivity</i> , 2016, 26, 1-5.	1.7	10
36	3-D Analytical Analysis of Magnetic Field of Flux Reversal Linear-Rotary Permanent-Magnet Actuator. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-5.	2.1	10

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37	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
38	Dynamic-Decoupled Active Damping Control Method for Improving Current Transient Behavior of LCL-Equipped High-Speed PMSMs. IEEE Transactions on Power Electronics, 2022, 37, 3259-3271.	7.9	10
39	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
40	Investigation of design methodology for non-earth variable flux switched flux memory machines. IET Electric Power Applications, 2016, 10, 744-756.	1.8	9
41	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
42	Stator winding design of induction motors for high efficiency. , 2014, , .		8
43	Performance Improvement of Partitioned Stator Switched Flux Memory Machines With Triple-Magnet Configuration. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	8
44	Position Sensorless Drive of High Speed Permanent Magnet Synchronous Motor. , 2018, , .		8
45	A Linear-Rotary Permanent Magnet Actuator With Independent Magnetic Circuit Structure. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-6.	1.7	7
46	A novel flux-reversal hybrid magnet memory machine. , 2017, , .		7
47	Position and Capacitor Voltage Sensorless Control of High-Speed Surface-Mounted PMSM Drive with Output Filter. , 2018, , .		7
48	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
49	Control strategies of current-source inverters for distributed generation under unbalanced grid conditions. , 2012, , .		6
50	Flux-Concentrated External-Rotor Switched Flux Memory Machines for Direct-Drive Applications. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-6.	1.7	6
51	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
52	Magnetic Field Calculation in Axial Flux Permanent Magnet Motor With Rotor Eccentricity. IEEE Transactions on Magnetics, 2022, 58, 1-4.	2.1	6
53	Design and thermal analysis on high torque low speed fractional-slot concentrated windings in-wheel traction motor. , 2016, , .		5
54	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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55	Novel Dual-Stator Switched-Flux Memory Machines With Hybrid Magnets. IEEE Transactions on Industry Applications, 2018, 54, 2129-2140.	4.9	5
56	Design and modeling of axial flux permanent magnet machine with yokeless and segment armature using magnetic equivalent circuit. , 2014, , .		4
57	High-performance partitioned-stator switched flux memory machines with hybrid magnets on external stator for traction applications. , 2016, , .		4
58	A novel stator-consequent-pole memory machine. , 2016, , .		4
59	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
60	An On-line Detection Method for Single-Phase Inter-Turn Fault Occurring in High-Speed PMSM. , 2020, , .		4
61	Development of an air-cooled 150 kW high speed permanent magnet motor with Gramme ring windings for turbo blowers. , 2014, , .		3
62	Research on variable flux permanent magnet pole-changing machine with harmonic excitation. , 2014, , .		3
63	Comparison and analysis of dual stator permanent magnet vernier machines with different pole/slot combinations for low speed direct drive applications. International Journal of Applied Electromagnetics and Mechanics, 2016, 50, 617-626.	0.6	3
64	Active damping control of modular multilevel converter with output filter for high-speed PM motor drive. , 2017, , .		3
65	Discrete-Time Current Control of Modular Multilevel Converter for Medium Voltage High Power High-Speed PMSM. , 2018, , .		3
66	Sliding Mode Control with Neural Network for Active Magnetic Bearing System. , 2019, , .		3
67	Position Estimation Method of IPMSM in Full Speed Range by Simplified Quadratic Optimization. IEEE Access, 2020, 8, 109964-109975.	4.2	3
68	Linear Representation of Saturation Characteristics Associated With Eddy Currents in Ferromagnetic Materials. IEEE Transactions on Magnetics, 2014, 50, 121-124.	2.1	2
69	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
70	Operating-envelop-expandable control strategy for switched flux hybrid magnet memory machine. , 2016, , .		2
71	An optimal design of an AFPMSM using analytical approach and particle swarm optimization. , 2017, , .		2
72	Novel fault-tolerant stator structure for modular PMSMs with fractional-slot overlapping winding. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
73	Position Sensorless Control of IPMSM Based on Quasi-Newton Methods. , 2019, , .		2
74	PM Hub Motor Design for Electric Two-Wheelers Based on Measured Driving Cycles. , 2020, , .		2
75	PMSM Speed Control for Forging Machine Based on Iterative Learning Control Method. , 2020, , .		2
76	Comprehensive Design and Analysis of Rotor Stress for HSPMM Considering Cooling Method. Machines, 2022, 10, 475.	2.2	2
77	Development of High Torque Low Speed Fractional-Slot Concentrated Windings PMSM for Traction Application. , 2016, , .		1
78	Research on Fault Identification Method of Dry-type Transformers Based on Support Vector Machine. , 2019, , .		1
79	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
80	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
81	On-load magnetization characteristic analysis of a novel partitioned stator hybrid magnet memory machine. , 2016, , .		0
82	Novel Partitioned Stator Hybrid Magnet Memory Machines for EV/HEV Applications. , 2016, , .		0
83	Analytical modeling of manufacturing imperfections in double rotor axial flux PM machines: Effects on back EMF. , 2016, , .		0
84	Novel design of a variable reluctance permanent magnet machine with bipolar coil flux-linkage. , 2016, , .		0
85	Novel variable-mode partitioned stator switched flux memory machines for automotive traction applications. , 2016, , .		0
86	3D magnetic field analytical calculation of flux reversal linear-rotary permanent magnet actuator. , 2016, , .		0
87	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
88	An Improved Composite Position Controller based on Discrete-Time Terminal Sliding Mode Control for PMSM Servo System. , 2020, , .		0
89	Investigation on Broadening Compressor Surge Margin by Using Active Magnetic Bearing. Shock and Vibration, 2022, 2022, 1-13.	0.6	0
90	An Improved Robust Deadbeat Predictive Current Control without Computational Delay. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
91	Analysis and Verification of the Method of Improving Inductance by Magnetic Endcaps in Slotless Permanent Magnet Motor. <i>Machines</i> , 2022, 10, 274.	2.2	0