

Hui Yang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

133
papers

1,034
citations

17
h-index

25
g-index

168
ext. papers

1,357
ext. citations

3.4
avg, IF

4.79
L-index

#	Paper	IF	Citations
133	Investigation of Axial Field Switched Flux Memory Machine by a Combined Analytical Method. <i>IEEE Transactions on Magnetics</i> , 2022 , 1-1	2	
132	Online-Parameter-Estimation-Based Control Strategy Combining MTPA and Flux-Weakening for Variable Flux Memory Machines. <i>IEEE Transactions on Power Electronics</i> , 2022 , 37, 4080-4090	7.2	4
131	Variable Time Magnetization Current Trajectory Control Method for Variable Flux Memory Machines. <i>IEEE Transactions on Transportation Electrification</i> , 2022 , 1-1	7.6	1
130	A Novel Delta-Type Hybrid-Magnetic-Circuit Variable Flux Memory Machine for Electrified Vehicle Applications. <i>IEEE Transactions on Transportation Electrification</i> , 2022 , 1-1	7.6	2
129	A Novel Asymmetric-PM Hybrid-Magnetic-Circuit Variable Flux Memory Machine for Traction Applications. <i>IEEE Transactions on Vehicular Technology</i> , 2022 , 1-1	6.8	0
128	A Novel Three-Stage Optimization Design Method of Asymmetric-PM Variable Flux Memory Machine Considering Magnet-Axis-Shifting Effect. <i>IEEE Transactions on Transportation Electrification</i> , 2022 , 1-1	7.6	
127	Influence of Low-Coercive-Force Magnet Property on Electromagnetic Performance of Variable Flux Memory Machine. <i>IEEE Transactions on Magnetics</i> , 2022 , 1-1	2	
126	On Unintentional Demagnetization Effect of Switched Flux Hybrid Magnet Memory Machine. <i>World Electric Vehicle Journal</i> , 2022 , 13, 66	2.5	
125	Speed Fluctuation Mitigation Control for Variable Flux Memory Machine During Magnetization State Manipulations. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	2
124	A Novel Variable Flux Memory Machine with Separated Series-Parallel PM Structure. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	
123	Torque Generation Mechanism and Performance Evaluation of a Dual-Sided PM Machine With Stator U-Shaped Magnets. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	2
122	A Novel Interior Permanent Magnet Machine with Magnet Axis Shifted Effect for Electric Vehicle Applications. <i>World Electric Vehicle Journal</i> , 2021 , 12, 189	2.5	1
121	Comparative Analysis of Parallel Hybrid Magnet Memory Machines with Different PM Arrangements. <i>World Electric Vehicle Journal</i> , 2021 , 12, 177	2.5	
120	Evaluation and analysis of novel flux-adjustable permanent magnet eddy current couplings with multiple rotors. <i>IET Electric Power Applications</i> , 2021 , 15, 754-768	1.8	3
119	Mode recognition and coordinated magnetisation control method for variable flux memory machine. <i>Electronics Letters</i> , 2021 , 57, 570-572	1.1	
118	A Novel Squirrel-Cage Rotor Permanent Magnet Adjustable Speed Drive With a Non-Rotary Mechanical Flux Adjuster. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 1036-1044	5.4	2
117	A Novel Stator Flux-Concentrated Hybrid Permanent Magnet Memory Machine. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-6	2	2

116	Principle Investigation and Performance Comparison of Consequent-Pole Switched Flux PM Machines. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 7, 766-778	7.6	4
115	Comparative Study of Novel Dual Stator Machines Having Different Biased PM Configurations. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1	2	
114	Investigation of Balanced Bidirectional-Magnetization Effect of a Novel Hybrid-Magnet-Circuit Variable Flux Memory Machine. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1	2	
113	Pre- and Post-Fault Operations of Six-phase Electric-Drive-Reconstructed Onboard Charger for Electric Vehicles. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 1-1	7.6	5
112	Hybrid Analytical Modeling of Air-Gap Magnetic Field in Asymmetric-Stator-Pole Flux Reversal Permanent Magnet Machine Considering Slotting Effect. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	1
111	A Novel Current Control Strategy for Magnetization State Manipulation of Variable Flux Memory Machine Based on Linear Active Disturbance Rejection. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	1
110	A Novel Asymmetric-Magnetic-Pole Interior PM Machine with Magnet-Axis-Shifting Effect. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	3
109	Comparative Study of Consequent-Pole Switched-Flux Machines with Different U-Shaped PM Structures. <i>World Electric Vehicle Journal</i> , 2021 , 12, 22	2.5	
108	Comparative study of stator consequent-pole permanent magnet machines. <i>IET Electric Power Applications</i> , 2021 , 15, 463-475	1.8	
107	Investigation of Double-Side Field Modulation Mechanism in Consequent-Pole PM Machines With Concentrated Windings. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 1635-1648	5.4	3
106	Design and Investigation of a Hybrid Stator Pole Memory Machine With DC Bias Magnetization Capability. <i>IEEE Transactions on Applied Superconductivity</i> , 2021 , 31, 1-5	1.8	
105	A Hybrid Field Analytical Method of Hybrid-Magnetic-Circuit Variable Flux Memory Machine Considering Magnet Hysteresis Nonlinearity. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 7, 2763-2774	7.6	1
104	Comparative Study of Torque Production Mechanisms in Stator and Rotor Consequent-Pole Permanent Magnet Machines. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 7, 2694-2704	7.6	5
103	Investigation of Hybrid-Magnet-Circuit Variable Flux Memory Machines With Different Hybrid Magnet Configurations. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 340-351	4.3	7
102	Loss-Reduction-Oriented Optimization Methodology of Hybrid-Magnetic-Circuit Variable Flux Memory Machine for Global Efficiency Improvement. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	0
101	Investigation of Torque Improvement Mechanism in Emerging Switched Flux PM Machines. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	2
100	Magnetization State Selection Method for Uncontrolled Generator Fault Prevention on Variable Flux Memory Machines. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 13270-13280	7.2	4
99	Second-Order Sliding Mode-Based Direct Torque Control of Variable-Flux Memory Machine. <i>IEEE Access</i> , 2020 , 8, 34981-34992	3.5	8

98	Investigation of Torque Characteristics of Switched Flux Hybrid Magnet Memory Machine by a Coupled Solution. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-5	2	1
97	Position Estimation Method of IPMSM in Full Speed Range by Simplified Quadratic Optimization. <i>IEEE Access</i> , 2020 , 8, 109964-109975	3.5	2
96	A Magnetization State Initialization Control Scheme for Variable Flux Memory Machines Without Requiring Position Sensor Information. <i>IEEE Transactions on Transportation Electrification</i> , 2020 , 6, 1157-1166	7.6	5
95	Design and Analysis of Novel Asymmetric-Stator-Pole Flux Reversal PM Machine. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 101-114	8.9	26
94	Analysis of Consequent-Pole Flux Reversal Permanent Magnet Machine With Biased Flux Modulation Theory. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 2107-2121	8.9	29
93	A Novel Hybrid-Magnetic-Circuit Variable Flux Memory Machine. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 5258-5268	8.9	34
92	A Parallel Consequent Pole Reluctance Machine With Bipolar Coil Flux-Linkage. <i>IEEE Access</i> , 2020 , 8, 116490-116500	9.0	30
91	A Novel Variable Flux Dual-Layer Hybrid Magnet Memory Machine with Bypass Airspace Barriers 2019 ,		3
90	A Novel Stator Spoke-Type Hybrid Magnet Memory Machine 2019 ,		1
89	A Novel Hybrid-Pole Interior PM Machine with Magnet-Axis-Shifting Effect 2019 ,		12
88	Comparative Study of Advanced Stator Interior Permanent Magnet Machines 2019 ,		2
87	High Power Density PMSM With Lightweight Structure and High-Performance Soft Magnetic Alloy Core. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-5	1.8	17
86	A New Double-Sided Flux Reversal Arc Permanent Magnet Machine With Enhanced Torque Density Capability. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-6	2	3
85	Comparative Study of Stator-Consequent-Pole Permanent Magnet Machines With Different Stator-Slot Configurations. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-8	2	8
84	Analysis of a New Dual-Stator Vernier Machine With Hybrid Magnet Flux-Reversal Arrangement. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-5	1.8	3
83	Analytical Analysis of a Novel Brushless Hybrid Excited Adjustable Speed Eddy Current Coupling. <i>Energies</i> , 2019 , 12, 308	3.1	6
82	Influence of Design Parameters on On-Load Demagnetization Characteristics of Switched Flux Hybrid Magnet Memory Machine. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-5	2	3
81	Torque Ripple Optimization of a Novel Cylindrical Arc Permanent Magnet Synchronous Motor Used in a Large Telescope. <i>Energies</i> , 2019 , 12, 362	3.1	0

80	A Novel Magnet-Axis-Shifted Hybrid Permanent Magnet Machine for Electric Vehicle Applications. <i>Energies</i> , 2019 , 12, 641	3.1	10
79	Comparative Study of Partitioned Stator Memory Machines With Series and Parallel Hybrid PM Configurations. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-8	2	9
78	A New Hybrid-Excited Flux Reversal Arc Permanent Magnet Machine Having Partitioned Stators for Large Telescope Application. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-10	2	8
77	Analytical Analysis of an Adjustable-Speed Permanent Magnet Eddy-Current Coupling With a Non-Rotary Mechanical Flux Adjuster. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-5	2	8
76	Speed Range Extension of a Dual-Stator PM Machine Using Winding Switching Strategy 2019 ,		1
75	Design Considerations of Switched Flux Memory Machine with Partitioned Stators. <i>Energies</i> , 2019 , 12, 3868	3.1	
74	On-load demagnetization effect of high-coercive-force PMs in switched flux hybrid magnet memory machine. <i>AIP Advances</i> , 2019 , 9, 125152	1.5	1
73	Numerical study on nanofluids natural convection heat transfer inside power transformer windings. <i>AIP Advances</i> , 2019 , 9, 125343	1.5	1
72	Comparative study of hybrid-PM variable-flux machines with different series PM configurations. <i>AIP Advances</i> , 2019 , 9, 125241	1.5	2
71	Investigation of magnetization characteristics of variable flux PM based on a Fourier-fitting hysteresis model. <i>AIP Advances</i> , 2019 , 9, 095056	1.5	1
70	A Hybrid Predictive Control for a Current Source Converter in an Aircraft DC Microgrid. <i>Energies</i> , 2019 , 12, 4025	3.1	4
69	Analysis of Novel Hybrid-Magnet-Circuit Variable Flux Memory Machines with Different Magnet Arrangements 2019 ,		1
68	Analysis of Flux Regulation Principle in a Novel Hybrid-Magnet-Circuit Variable Flux Memory Machine 2019 ,		2
67	A Novel Dual-Sided PM Machine with Stator Spoke-Type PM Structure 2019 ,		5
66	Design and Analysis of a Novel Mechanical-Variable-Flux Stator Consequent-Pole Machine 2019 ,		2
65	Stepwise Magnetization Control Strategy for DC-Magnetized Memory Machine. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 4273-4285	8.9	13
64	Analysis and Performance Evaluation of an Efficient Power-Fed Permanent Magnet Adjustable Speed Drive. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 784-794	8.9	12
63	. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 2129-2140	4.3	4

62	Analytical Modeling of Switched Flux Memory Machine. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	10
61	Synthesis of Hybrid Magnet Memory Machines Having Separate Stators for Traction Applications. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 183-195	6.8	15
60	Design and analysis of a flux intensifying permanent magnet embedded salient pole wind generator. <i>AIP Advances</i> , 2018 , 8, 056627	1.5	2
59	Comparative Study of Hybrid PM Memory Machines Having Single- and Dual-Stator Configurations. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 9168-9178	8.9	24
58	A variable-mode stator consequent pole memory machine. <i>AIP Advances</i> , 2018 , 8, 056612	1.5	5
57	Influence of magnet eddy current on magnetization characteristics of variable flux memory machine. <i>AIP Advances</i> , 2018 , 8, 056602	1.5	2
56	Analytical Analysis of a Novel Flux Adjustable Permanent Magnet Eddy-Current Coupling With a Movable Stator Ring. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-4	2	10
55	A Novel Dual-Sided PM Variable Flux Memory Machine. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	4
54	Novel Dual-Stator Machines With Biased Permanent Magnet Excitation. <i>IEEE Transactions on Energy Conversion</i> , 2018 , 33, 2070-2080	5.4	11
53	Comparative Study of Permanent Magnet Machines with Single-Sided and Dual-Sided Magnets 2018 ,		3
52	Analysis of Field Modulation Effect in Consequent Pole Permanent Magnet Machines with Concentrated Windings 2018 ,		1
51	High Power Density Permanent Magnet Synchronous Motor With Lightweight Structure and High-Performance Soft Magnetic Alloy Core 2018 ,		1
50	Design and Analysis of a Dual-Rotor Field Modulation Machine with Triple PM Excitation 2018 ,		2
49	A Novel Dual-Layer PM Variable Flux Hybrid Memory Machine 2018 ,		8
48	Recent advances in variable flux memory machines for traction applications: A review. <i>CES Transactions on Electrical Machines and Systems</i> , 2018 , 2, 34-50	2.3	31
47	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	4
46	Analysis of On-Load Magnetization Characteristics in a Novel Partitioned Stator Hybrid Magnet Memory Machine. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	8
45	A Novel Consequent-Pole Hybrid Excited Vernier Machine. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	28

44	Design Synthesis of Switched Flux Hybrid-Permanent Magnet Memory Machines. <i>IEEE Transactions on Energy Conversion</i> , 2017 , 32, 65-79	5.4	32
43	Loss Calculation and Temperature Field Analysis of Consequent-Pole Hybrid Excited Vernier Machine. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-5	2	4
42	Novel reluctance axis shifted machines with hybrid rotors 2017 ,		10
41	A novel flux-reversal hybrid magnet memory machine 2017 ,		4
40	Novel dual stator switched flux hybrid magnet memory machines 2016 ,		2
39	Flux-Concentrated External-Rotor Switched Flux Memory Machines for Direct-Drive Applications. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-6	1.8	6
38	Investigation of design methodology for non-rare-earth variable-flux switched-flux memory machines. <i>IET Electric Power Applications</i> , 2016 , 10, 744-756	1.8	8
37	Flux adjustable permanent magnet machines: A technology status review. <i>Chinese Journal of Electrical Engineering</i> , 2016 , 2, 14-30	4	25
36	A novel stator-consequent-pole memory machine 2016 ,		3
35	Design and investigation of a fractional-slot pole-changing memory machine 2016 ,		3
34	Electromagnetic analysis of a novel axial-field switched flux hybrid magnet memory machine 2016 ,		1
33	Irreversible Demagnetization Analysis of Permanent Magnet Materials in a Novel Flux Reversal Linear-Rotary Permanent Magnet Actuator. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-4	2	10
32	A Variable-Flux Hybrid-PM Switched-Flux Memory Machine for EV/HEV Applications. <i>IEEE Transactions on Industry Applications</i> , 2016 , 52, 2203-2214	4.3	44
31	Performance Improvement of Partitioned Stator Switched Flux Memory Machines With Triple-Magnet Configuration. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-4	2	6
30	Cogging Torque Optimization of Flux Memory Pole-Changing Permanent Magnet Machine. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 1-1	1.8	7
29	Hybrid-Excited Switched-Flux Hybrid Magnet Memory Machines. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-15	2	24
28	A Dual-Consequent-Pole Vernier Memory Machine. <i>Energies</i> , 2016 , 9, 134	3.1	17
27	High-performance partitioned-stator switched flux memory machines with hybrid magnets on external stator for traction applications 2016 ,		3

26	Operating-envelop-expandable control strategy for switched flux hybrid magnet memory machine 2016,		1
25	Novel High-Performance Switched Flux Hybrid Magnet Memory Machines With Reduced Rare-Earth Magnets. <i>IEEE Transactions on Industry Applications</i> , 2016 , 52, 3901-3915	4.3	22
24	A Linear-Rotary Permanent Magnet Actuator With Independent Magnetic Circuit Structure. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-6	1.8	6
23	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	1.8	8
22	Electromagnetic Analysis of a HTS Linear-Rotary Permanent Magnet Actuator. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-5	1.8	3
21	A Winding-Switching Concept for Flux Weakening in Consequent Magnet Pole Switched Flux Memory Machine. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	6
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	17
19	Novel alternative switched flux memory machines having hybrid magnet topologies 2015,		2
18	Design and Analysis of a Variable-Flux Pole-Changing Permanent Magnet Memory Machine. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	3
17	A Novel Linear-Rotary Permanent-Magnet Actuator Using Interlaced Poles. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	6
16	Linear Representation of Saturation Characteristics Associated With Eddy Currents in Ferromagnetic Materials. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 121-124	2	2
15	Thermal Optimization of a High-Speed Permanent Magnet Motor. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 749-752	2	54
14	Analysis of a Novel Switched-Flux Memory Motor Employing a Time-Divisional Magnetization Strategy. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 849-852	2	42
13	Static Characteristics of Novel Air-Cored Linear and Rotary Halbach Permanent Magnet Actuator. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 977-980	2	20
12	Air-Gap Magnetic Field Analysis of Wind Generator With PM Embedded Salient Poles by Analytical and Finite Element Combination Technique. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 777-780	2	1
11	Transverse flux permanent magnet motor with double-C stator hoops and flux-concentrated rotor for in-wheel drive electric vehicle 2014,		6
10	3-D Analytical Magnetic Field Analysis of Axial Flux Permanent-Magnet Machine. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	13
9	Electromagnetic and Thermal Analysis of Open-Circuit Air Cooled High-Speed Permanent Magnet Machines With Gramme Ring Windings. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	46

8	Novel switched-flux hybrid permanent magnet memory machines for EV/HEV applications 2014 ,		10
7	Flux-Regulatable Characteristics Analysis of a Novel Switched-Flux Surface-Mounted PM Memory Machine. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	18
6	Analytical Modeling of Permanent Magnet Biased Axial Magnetic Bearing With Multiple Air Gaps. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	7
5	Novel Flux-Regulatable Dual-Magnet Vernier Memory Machines for Electric Vehicle Propulsion. <i>IEEE Transactions on Applied Superconductivity</i> , 2014 , 24, 1-5	1.8	3
4	Magnetic Equivalent Circuit Modeling of Yokeless Axial Flux Permanent Magnet Machine With Segmented Armature. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	27
3	Analysis of Phase Lock Loop Closed-Loop Drive Circuit for Silicon Micromachined Resonant Accelerometer Based on the Average Method. <i>Applied Mechanics and Materials</i> , 2012 , 263-266, 691-696 ^{0.3}		
2	New Methods for Arc Permanent Magnet Linear Synchronous Motor to Decrease Torque Ripple. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 2659-2663	2	14
1	Application of optoelectronic sensing technology in smart grid 2011 ,		3