

Shuhua Fang

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.

98
papers

943
citations

17
h-index

25
g-index

126
ext. papers

1,218
ext. citations

2.8
avg, IF

4.58
L-index

#	Paper	IF	Citations
98	Flux Leakage Analytical Calculation in the E-shape Stator of Linear Rotary Motor with Interlaced Permanent Magnet Poles. <i>IEEE Transactions on Magnetics</i> , 2022 , 1-1	2	0
97	A New Hybrid-Excited Partitioned Stator Flux Modulated Machine With Dual-PM. <i>IEEE Transactions on Magnetics</i> , 2022 , 1-1	2	1
96	Investigation of Axial Field Switched Flux Memory Machine by a Combined Analytical Method. <i>IEEE Transactions on Magnetics</i> , 2022 , 1-1	2	
95	Electromagnetic Design of Single-Phase Permanent Magnet Linear Oscillation Actuator Considering Detent Force Minimum. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1	2	1
94	Design of Permanent Magnet Synchronous Motor Servo System Based on Improved Particle Swarm Optimization. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	3
93	Design approach of perforated labyrinth-based acoustic metasurface for selective acoustic levitation manipulation. <i>Scientific Reports</i> , 2021 , 11, 7619	4.9	4
92	Mode recognition and coordinated magnetisation control method for variable flux memory machine. <i>Electronics Letters</i> , 2021 , 57, 570-572	1.1	
91	Design and Analysis of a New Dual-Stator Consequent-Pole Flux Reversal Machine With Triple-PM Excitation. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-4	2	1
90	Design and Analysis of Variable Flux Arc Permanent Magnet Motor With Multiple Excitations. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-5	2	1
89	A Simplified Phase-Controlled Switching Strategy for Inrush Current Reduction. <i>IEEE Transactions on Power Delivery</i> , 2021 , 36, 215-222	4.3	9
88	LightGBM Technique and Differential Evolution Algorithm-Based Multi-Objective Optimization Design of DS-APMM. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 441-455	5.4	2
87	A Self-Adaptive Control for Phase-Controlled Electromagnetic Contactor Using Weighted Moving Average Filter. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 8963-8972	8.9	3
86	Combined Random Forest and NSGA-II for Optimal Design of Permanent Magnet Arc Motor. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	3
85	Design and Analysis of a New Partitioned Stator Hybrid-Excited Flux Reversal Machine With Dual-PM. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1	2	1
84	A New Hybrid-Excited Doubly Salient Dual-PM Machine With DC-biased Sinusoidal Current. <i>IEEE Transactions on Applied Superconductivity</i> , 2021 , 31, 1-5	1.8	4
83	Method to Improve the Optimized Calculation Speed of Superconducting Magnetic Coil. <i>IEEE Transactions on Applied Superconductivity</i> , 2021 , 31, 1-5	1.8	0
82	Methods of Increasing the Energy Storage Density of Superconducting Flywheel. <i>IEEE Transactions on Applied Superconductivity</i> , 2021 , 31, 1-5	1.8	1

81	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	
80	Torque Performance Improvement of Permanent Magnet Arc Motor Based on Two-Step Strategy. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 7523-7534	11.9	4
79	DDS-based protocol-compatible communication platform for mining power system. <i>IET Communications</i> , 2020 , 14, 158-164	1.3	1
78	Design study of an aerospace motor for more electric aircraft. <i>IET Electric Power Applications</i> , 2020 , 14, 2881-2890	1.8	1
77	New method to analyse delay of DDS and MMS in substation communication. <i>IET Communications</i> , 2020 , 14, 2794-2801	1.3	2
76	Optimization design and energy-saving control strategy of high power dc contactor. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 117, 105633	5.1	3
75	Design of New Dual-Stator Field Modulation Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 5626-5636	8.9	4
74	A Parallel Consequent Pole Reluctance Machine With Bipolar Coil Flux-Linkage. <i>IEEE Access</i> , 2020 , 8, 116490-116500	3.9	16
73	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
72	A Novel Breaking Strategy for Reduced Response Time of Electromagnetic Contactor by Reverse Voltage Application. <i>Energies</i> , 2019 , 12, 789	3.1	5
71	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
70	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
69	Analytical Analysis of a Novel Brushless Hybrid Excited Adjustable Speed Eddy Current Coupling. <i>Energies</i> , 2019 , 12, 308	3.1	6
68	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
67	A Novel Magnet-Axis-Shifted Hybrid Permanent Magnet Machine for Electric Vehicle Applications. <i>Energies</i> , 2019 , 12, 641	3.1	10
66	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
65	Multi-Objective Optimization of a Permanent Magnet Actuator for High Voltage Vacuum Circuit Breaker Based on Adaptive Surrogate Modeling Technique. <i>Energies</i> , 2019 , 12, 4695	3.1	3
64	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

63	Stepwise Magnetization Control Strategy for DC-Magnetized Memory Machine. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 4273-4285	8.9	13
62	A Method to Improve Volume Energy Density for HTS Coil. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-4	1.8	2
61	Distribution Characteristic and Combined Optimization of Maximum Cogging Torque of Surface-Mounted Permanent-Magnet Machines. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	10
60	. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 2129-2140	4.3	4
59	Analytical Modeling of Switched Flux Memory Machine. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	10
58	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
57	Optimization Design of a Permanent Magnet Actuator for 126-kV Vacuum Circuit Breaker. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-5	1.8	6
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 method to check the axial tilt instability of the rectangular winding of the amorphous alloy transformer. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2018 , 13, 92-97	1	2
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	High Power Density Permanent Magnet Synchronous Motor With Lightweight Structure and High-Performance Soft Magnetic Alloy Core 2018 ,		1
52	Design and Analysis of a Dual-Rotor Field Modulation Machine with Triple PM Excitation 2018 ,		2
51	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
50	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
49	A Novel Consequent-Pole Hybrid Excited Vernier Machine. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	28
48	Design Synthesis of Switched Flux Hybrid-Permanent Magnet Memory Machines. <i>IEEE Transactions on Energy Conversion</i> , 2017 , 32, 65-79	5.4	32
47	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
46	Research of the amorphous alloy transformer with runway shape winding based on the magnetic-vibration-noise coupling calculation method 2017 ,		1

45	Design and thermal analysis on high torque low speed fractional-slot concentrated windings in-wheel traction motor 2016 ,		4
44	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
43	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
42	Comparison and analysis of dual stator permanent magnet vernier machines with different pole/slot combinations for low speed direct drive applications. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2016 , 50, 617-626	0.4	3
41	A novel stator-consequent-pole memory machine 2016 ,		3
40	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
39	Analytical Prediction of Torque Characteristics of Eddy Current Couplings Having a Quasi-Halbach Magnet Structure. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-9	2	18
38	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
37	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
36	Design and Analysis of Modular Flux-Concentrating HTS Permanent-Magnet Vernier Machine. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-5	1.8	7
35	Hybrid-Excited Switched-Flux Hybrid Magnet Memory Machines. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-15	2	24
34	A Dual-Consequent-Pole Vernier Memory Machine. <i>Energies</i> , 2016 , 9, 134	3.1	17
33	High-performance partitioned-stator switched flux memory machines with hybrid magnets on external stator for traction applications 2016 ,		3
32	Operating-envelop-expandable control strategy for switched flux hybrid magnet memory machine 2016 ,		1
31	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
30	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
29	A Novel Strategy for Reducing Inrush Current of Three-Phase Transformer Considering Residual Flux. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 4442-4451	8.9	17
28	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

27	Analysis and design of a high-speed permanent magnet characteristic actuator using eddy current effect for high-voltage vacuum circuit breaker. <i>IET Electric Power Applications</i> , 2016 , 10, 268-275	1.8	16
26	Electromagnetic Analysis of a HTS Linear-Rotary Permanent Magnet Actuator. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-5	1.8	3
25	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
24	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
23	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	13
22	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	9
21	Analysis of Axial-Flux Halbach Permanent-Magnet Machine. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	18
20	A Novel Flux-Weakening Control Strategy for Permanent-Magnet Actuator of Vacuum Circuit Breaker. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 1-1	8.9	15
19	A Novel Linear-Rotary Permanent-Magnet Actuator Using Interlaced Poles. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	6
18	Linear Representation of Saturation Characteristics Associated With Eddy Currents in Ferromagnetic Materials. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 121-124	2	2
17	A General Analytical Model of Permanent Magnet Eddy Current Couplings. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-9	2	52
16	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
15	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
14	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
13	3-D Analytical Magnetic Field Analysis of Axial Flux Permanent-Magnet Machine. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	13
12	Novel switched-flux hybrid permanent magnet memory machines for EV/HEV applications 2014 ,		10
11	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
10	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

9	3-D Analytical Linear Force and Rotary Torque Analysis of Linear and Rotary Permanent Magnet Actuator. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3989-3992	2	11
8	Design, Optimization, and Intelligent Control of Permanent-Magnet Contactor. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 5148-5159	8,9	30
7	Decoupling Control of Linear and Rotary Permanent Magnet Actuator Using Two-Directional α - β Transformation. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 2585-2591	2	13
6	Characteristic investigation of permanent magnet actuator for vacuum contactors operating with an intrinsically safe low voltage. <i>Science China Technological Sciences</i> , 2012 , 55, 1688-1694	3,5	2
5	Dynamic performance analysis of permanent magnet contactor with a flux-weakening control strategy. <i>Journal of Applied Physics</i> , 2011 , 109, 07E707	2,5	4
4	Analytical Magnetic Field Analysis and Prediction of Cogging Force and Torque of a Linear and Rotary Permanent Magnet Actuator. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 3004-3007	2	39
3	Analysis of Dynamic Characteristics of Permanent Magnet Contactor With Sensorless Displacement Profile Control. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 1633-1636	2	28
2	Transient Co-Simulation of Low Voltage Circuit Breaker With Permanent Magnet Actuator. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 1242-1245	2	28
1	Magnetic Field Analysis and Dynamic Characteristic Prediction of AC Permanent-Magnet Contactor. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 2990-2995	2	32