

Gan Zhang

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Flux-Regulation Theories and Principles of Hybrid-Excited Flux-Switching Machines. IEEE Transactions on Industrial Electronics, 2015, 62, 5359-5369.	7.9	109
2	Design and Comparison of Two Six-Phase Hybrid-Excited Flux-Switching Machines for EV/HEV Applications. IEEE Transactions on Industrial Electronics, 2016, 63, 481-493.	7.9	83
3	Analysis of Fault Tolerant Control for a Nine-Phase Flux-Switching Permanent Magnet Machine. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	55
4	Analysis of Two Novel Five-Phase Hybrid-Excitation Flux-Switching Machines for Electric Vehicles. IEEE Transactions on Magnetics, 2014, 50, 1-5.	2.1	50
5	Electromagnetic Performance Analysis of Hybrid-Excited Flux-Switching Machines by a Nonlinear Magnetic Network Model. IEEE Transactions on Magnetics, 2011, 47, 3216-3219.	2.1	44
6	Analysis of the Oversaturated Effect in Hybrid Excited Flux-Switching Machines. IEEE Transactions on Magnetics, 2011, 47, 2827-2830.	2.1	44
7	Principle of Flux-Switching Permanent Magnet Machine by Magnetic Field Modulation Theory Part I: Back-Electromotive-Force Generation. IEEE Transactions on Industrial Electronics, 2022, 69, 2370-2379.	7.9	42
8	Coupled Magnetic-Thermal Fields Analysis of Water Cooling Flux-Switching Permanent Magnet Motors by an Axially Segmented Model. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	41
9	Investigation and Design of a High-Power Flux-Switching Permanent Magnet Machine for Hybrid Electric Vehicles. IEEE Transactions on Magnetics, 2015, 51, 1-5.	2.1	38
10	Coupled Magnetic Field-Thermal Network Analysis of Modular-Spoke-Type Permanent-Magnet Machine for Electric Motorcycle. IEEE Transactions on Energy Conversion, 2021, 36, 120-130.	5.2	32
11	Multivector-Based Model Predictive Control With Geometric Solution of a Five-Phase Flux-Switching Permanent Magnet Motor. IEEE Transactions on Industrial Electronics, 2020, 67, 10035-10045.	7.9	31
12	Comprehensive Comparison of Rotor Permanent Magnet and Stator Permanent Magnet Flux-Switching Machines. IEEE Transactions on Industrial Electronics, 2019, 66, 5862-5871.	7.9	29
13	Principle of Flux-Switching PM Machine by Magnetic Field Modulation Theory Part II: Electromagnetic Torque Generation. IEEE Transactions on Industrial Electronics, 2022, 69, 2437-2446.	7.9	28
14	Analysis and evaluation of novel rotor permanent magnet flux-switching machine for EV and HEV applications. IET Electric Power Applications, 2017, 11, 1610-1618.	1.8	27
15	Analysis and Reduction of Cogging Torque for Flux-Switching Permanent Magnet Machines. IEEE Transactions on Industry Applications, 2019, 55, 5854-5864.	4.9	27
16	Analysis of Linear Flux-Switching Permanent Magnet Motor Using Response Surface Methodology. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	25
17	Quantitative Evaluation of the Topologies and Electromagnetic Performances of Dual-Three-Phase Flux-Switching Machines. IEEE Transactions on Industrial Electronics, 2018, 65, 9157-9167.	7.9	23
18	Analysis of Back-EMF Waveform of a Novel Outer-Rotor-Permanent-Magnet Flux-Switching Machine. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	19

#	ARTICLE	IF	CITATIONS
19	Torque Ripple Suppression of Flux-Switching Permanent Magnet Machine Based on General Air-Gap Field Modulation Theory. IEEE Transactions on Industrial Electronics, 2022, 69, 12379-12389.	7.9	19
20	Dead-Time Compensation Based on a Modified Multiple Complex Coefficient Filter for Permanent Magnet Synchronous Machine Drives. IEEE Transactions on Power Electronics, 2021, 36, 12979-12989.	7.9	16
21	The Influence of Dummy Slots on Stator Surface-Mounted Permanent Magnet Machines. IEEE Transactions on Magnetics, 2017, 53, 1-5.	2.1	14
22	Rediscovery of permanent magnet flux-switching machines applied in EV/HEVs: Summary of new topologies and control strategies. Chinese Journal of Electrical Engineering, 2016, 2, 31-42.	3.4	11
23	Nonlinear magnetic network models for flux-switching permanent magnet machines. Science China Technological Sciences, 2016, 59, 494-505.	4.0	8
24	Stray Load Loss Calculation for Induction Motor by Combination of General Airgap Field Modulation Theory and 2D FEA. IEEE Transactions on Energy Conversion, 2021, 36, 2524-2533.	5.2	7
25	Inductance Characteristics of Flux-Switching Permanent Magnet Machine Based on General Air-Gap Filed Modulation Theory. IEEE Transactions on Industrial Electronics, 2022, 69, 12270-12280.	7.9	7
26	Investigation of an improved hybrid-excitation flux switching brushless machine for HEV/EV applications. , 2014, , .		6
27	Steady-State Characteristics Analysis of Hybrid-Excited Flux-Switching Machines with Identical Iron Laminations. Energies, 2015, 8, 12898-12916.	3.1	6
28	Power distribution of a co-axial dual-mechanical-port flux-switching permanent magnet machine for fuel-based extended range electric vehicles. AIP Advances, 2017, 7, .	1.3	6
29	Grid-Connected and Standalone Control for Dual-Stator Brushless Doubly Fed Induction Generator. IEEE Transactions on Industrial Electronics, 2021, 68, 9196-9206.	7.9	6
30	Modulation behaviours and interchangeability of modulators for electrical machines. IET Electric Power Applications, 2021, 15, 542-554.	1.8	6
31	Split ratio design technique of the magnetic-gear dual-rotor motor. , 2016, , .		5
32	Optimization of Rotor Salient Pole Reluctance for Typical Field Modulated Electric Machines. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 1847-1859.	5.4	5
33	Static characteristic of a novel stator surface-mounted permanent magnet machine for brushless DC drives. , 2012, , .		4
34	Investigation of on-loaded performances of hybrid-excitation flux-switching brushless machines for HEV/EV applications. , 2014, , .		4
35	Magnetic Equivalent Circuit and Optimization Method of a Synchronous Reluctance Motor with Concentrated Windings. Energies, 2022, 15, 1735.	3.1	4
36	Torque Characteristics of SPM-FS Machines With Functional-Contour Salient Pole Rotors Considering Manufacturing Error. IEEE Transactions on Energy Conversion, 2022, 37, 2645-2656.	5.2	4

#	ARTICLE	IF	CITATIONS
37	Design and manufacturing considerations of flux-switching permanent magnet motors for mass productions used in EVs and HEVs. , 2015, , .		3
38	A Novel Two Degrees-of-Freedom Rotary-linear Flux-Switching Permanent Magnet Machine. , 2019, , .		3
39	Flux-regulation capability of hybrid-excited flux-switching machines. , 2012, , .		2
40	An improved configuration for cogging torque reduction in flux-reversal permanent magnet machines. , 2016, , .		2
41	Analysis and optimization of back-EMF waveform of a novel outer-rotor-permanent-magnet flux-switching machine. , 2016, , .		2
42	Coupled Electromagnetic-Thermal Analysis of a 130kW Interior-PM Machine for Electric Vehicles based on Field-Circuit Coupling Method. , 2019, , .		2
43	The influence of opening slots on stator surface-mounted permanent magnet machines. , 2016, , .		1
44	A modular and fault-tolerant linear flux-switching permanent magnet machine with thin yoke. , 2016, , .		1
45	Evaluation of parameter sensitivities for flux-switching permanent magnet machines based on simplified equivalent magnetic circuit. AIP Advances, 2017, 7, .	1.3	1
46	An Integrated On-board Battery Charger for EVs With Voltage Matching Ability Based on a Six-Phase HEFS Machine. , 2020, , .		1
47	Design and analysis of two six-phase hybrid-excitation flux-switching machines for electric vehicles. , 2015, , .		0
48	Parameter sensitivity analysis and robust design approach for flux-switching permanent magnet machines. , 2016, , .		0
49	Parameter Sensitivity Analysis and Robust Design Approach for Flux-Switching Permanent Magnet Machines. Energies, 2022, 15, 2194.	3.1	0