

# Xiao Liu

## List of Publications by Year in descending order

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413  
citing authors

#	ARTICLE	IF	CITATIONS
1	Incipient Stator Insulation Fault Detection of Permanent Magnet Synchronous Wind Generators Based on Hilbertâ€™Huang Transformation. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	51
2	Detection of Partial Demagnetization Fault in PMSMs Operating Under Nonstationary Conditions. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	43
3	A Novel Dual-Flux-Modulator Coaxial Magnetic Gear for High Torque Capability. IEEE Transactions on Energy Conversion, 2018, 33, 682-691.	5.2	38
4	Initial Rotor Position Detection for Sensorless Interior PMSM With Square-Wave Voltage Injection. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	30
5	Analysis and Design Optimization of a Coaxial Surface-Mounted Permanent-Magnet Magnetic Gear. Energies, 2014, 7, 8535-8553.	3.1	27
6	Cogging Torque Reduction by Elementary-Cogging-Unit Shift for Permanent Magnet Machines. IEEE Transactions on Magnetics, 2017, 53, 1-5.	2.1	26
7	A Novel Excitation Assistance Switched Reluctance Wind Power Generator. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	21
8	Magnetic Field and Thrust Analysis of the U-Channel Air-Core Permanent Magnet Linear Synchronous Motor. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	19
9	A Novel Coaxial Magnetic Gear and Its Integration With Permanent-Magnet Brushless Motor. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	15
10	Overview of condition monitoring and operation control of electric power conversion systems in direct-drive wind turbines under faults. Frontiers of Mechanical Engineering, 2017, 12, 281-302.	4.3	15
11	Variable-Speed Hydropower Generation: System Modeling, Optimal Control, and Experimental Validation. IEEE Transactions on Industrial Electronics, 2021, 68, 10902-10912.	7.9	14
12	Probe Improvement of Inductive Sensor for Online Health Monitoring of Mechanical Transmission Systems. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	12
13	Analytical Investigation on the Power Factor of a Flux-Modulated Permanent-Magnet Synchronous Machine. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	12
14	An Online Data-Driven Multi-Objective Optimization of a Permanent Magnet Linear Synchronous Motor. IEEE Transactions on Magnetics, 2021, 57, 1-4.	2.1	11
15	Design of Position Estimation Strategy of Sensorless Interior PMSM at Standstill Using Minimum Voltage Vector Injection Method. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	10
16	Investigation of Unbalanced Magnetic Force in Magnetic Geared Machine Using Analytical Methods. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	9
17	Multi-Objective Robust Optimization for a Dual-Flux-Modulator Coaxial Magnetic Gear. IEEE Transactions on Magnetics, 2019, 55, 1-8.	2.1	9
18	Characteristics Analysis of an Excitation Assistance Switched Reluctance Wind Power Generator. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	7

#	ARTICLE	IF	CITATIONS
19	Multi-Objective Robust Optimization of a Dual-Flux-Modulator Magnetic Geared Machine With Hybrid Uncertainties. IEEE Transactions on Energy Conversion, 2020, 35, 2106-2115.	5.2	7
20	Design and Optimization of the New H-Module Linear Actuator. IEEE Transactions on Magnetics, 2012, 48, 4188-4191.	2.1	4
21	Parametric Analysis and Design of Magnetic Lead Screw. , 2019, , .		4
22	Multi-objective optimization of the motor with the novel Halbach permanent magnet array. , 2019, , .		4
23	A 2MW 6-phase BLDC generator developed from a PM synchronous generator for wind energy application. , 2014, , .		3
24	A sensor-less method for online thermal monitoring of switched reluctance machine. , 2015, , .		3
25	MPC Based Coordinated Active and Reactive Power Control Strategy of DFIG Wind Farm with Distributed ESSs. Energies, 2021, 14, 3906.	3.1	3
26	Multi-Objective Optimization for a Dual-Flux-Modulator Coaxial Magnetic Gear With Double-Layer Permanent Magnet Inner Rotor. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	3
27	Magnetic field and thrust analysis of the U-channel air-core permanent magnet linear synchronous motor. , 2016, , .		2
28	Fast calculation of magnetic field distribution in magnetic gear for high torque application. , 2016, , .		2
29	Common-mode voltage suppression of dual Y shift 30° six-phase electric machine. , 2017, , .		2
30	A Novel Magnetic-Geared Machine with Dual Flux Modulators. , 2018, , .		2
31	Spectrum Analysis and Optimization of the Axial Magnetic Gear with Halbach Permanent Magnet Arrays. Energies, 2019, 12, 2003.	3.1	2
32	Force Characteristics of the H-Module Linear Actuator With Varying Tooth-Shift-Distance. IEEE Transactions on Magnetics, 2013, 49, 3842-3845.	2.1	1
33	Analytical calculation of the magnetic field distribution in a flux-modulated permanent-magnet brushless motor. , 2015, , .		1
34	Design and Parametric Analysis of a Long Stroke Magnetic-gear Flat Linear Machine with Low Material Costs. , 2019, , .		1
35	Multi-objective Optimization of Topology and Control Parameters of the Switched Reluctance Motor with 12/8 Poles. , 2021, , .		1
36	Thrust characteristic improvement of permanent magnet linear synchronous motor based on multiobjective optimization. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
37	Axial magnetic force analysis of the direct-drive radial axial flow turbine with conical-rotor PM generator. , 2017, , .		0
38	Calculation and Analysis on Characteristics of the Magnetic Lead Screw. , 2019, , .		0
39	Parameters Optimization of the Permanent Magnet Linear Synchronous Machine Using Kriging-based Genetic Algorithm. , 2019, , .		0
40	Nonlinear Modeling of the Dual Flux Modulator Magnetic-Geared Machine Based on Dual d-q Coordination System. , 2021, , .		0
41	Power Factor Improvement for a Magnetic-Geared Flat Linear Machine. , 2021, , .		0