

Xianfei Xie

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Analytical Calculation of Synchronous Reactances of Homopolar Inductor Alternator. IEEE Transactions on Plasma Science, 2015, 43, 1462-1468.	1.3	24
2	Electronic Localization Derived Excellent Stability of Li Metal Anode with Ultrathin Alloy. Advanced Science, 2022, 9, e2105656.	11.2	22
3	Discharge Process of the Multiphase Air-Core Compulsator-Based Railgun Systems. IEEE Transactions on Plasma Science, 2016, 44, 273-280.	1.3	14
4	Simulation of a Seven-Phase Air-Core Pulsed Alternator Driving the Electromagnetic Rail Gun. IEEE Transactions on Plasma Science, 2017, 45, 1251-1256.	1.3	14
5	Optimized Design and Simulation of an Air-Core Pulsed Alternator. IEEE Transactions on Plasma Science, 2015, 43, 1405-1409.	1.3	11
6	Analysis and Preliminary Experimental Research of a Multiphase Air-Core Pulsed Alternator. IEEE Transactions on Transportation Electrification, 2021, 7, 2551-2561.	7.8	10
7	Research on the Excitation Control of Brushless Doubly-Fed Alternator in a Novel Pulse Capacitor Charge Power Supply. IEEE Transactions on Plasma Science, 2017, 45, 1288-1294.	1.3	9
8	A Novel Critical Analysis Method of Homopolar Inductor Alternator for Preliminary Design in Capacitor Charge Power Supply. IEEE Transactions on Plasma Science, 2019, 47, 2354-2361.	1.3	9
9	Analysis and Test Efficiency of a High-Power Pulsed Power Supply Based on HIA. IEEE Transactions on Plasma Science, 2019, 47, 2293-2301.	1.3	9
10	Transient Analysis of Air-Core Pulsed Alternators in Self-Excitation Mode. IEEE Transactions on Plasma Science, 2015, 43, 1415-1420.	1.3	8
11	Design Consideration of Eddy-Current Loss for Rotor of HIA With Rectifier and Capacitive Loads. IEEE Transactions on Plasma Science, 2018, 46, 2949-2953.	1.3	8
12	Design and Analysis of High Speed Rotor in Air-Core Pulsed Alternator. IEEE Access, 2019, 7, 140367-140374.	4.2	8
13	Analysis of a Novel Excitation Compensated Homopolar Inductor Alternator Used for Capacitor Charge Power Supply. IEEE Transactions on Plasma Science, 2019, 47, 5165-5171.	1.3	8
14	Study of capacitor charge power supply with homopolar inductor alternator: System modelling and mode analysis. IET Power Electronics, 2021, 14, 14-26.	2.1	8
15	Design Considerations of an Air-Core Pulsed Alternator in an Electromagnetic Railgun System. IEEE Transactions on Plasma Science, 2015, 43, 3895-3900.	1.3	7
16	Design and Simulation of a Novel Brushless Doubly Fed Alternator for the Pulse Capacitor Charge Power Supply. IEEE Transactions on Plasma Science, 2015, 43, 1368-1376.	1.3	7
17	Loss Analysis of Air-Core Pulsed Alternator Driving an Ideal Electromagnetic Railgun. IEEE Transactions on Transportation Electrification, 2021, 7, 1589-1599.	7.8	5
18	Optimized design and simulation of a GW-scale Multiphase Air-Core Pulsed Alternator. , 2014, , .		4

#	ARTICLE	IF	CITATIONS
19	The Research of an Equivalent Load Used for Testing an Air-Core Pulsed Alternator. IEEE Transactions on Plasma Science, 2019, 47, 4189-4195.	1.3	4
20	3-D FEM Analysis on Electromagnetic Characteristics of an Air-Core Pulsed Alternator. IEEE Transactions on Plasma Science, 2017, 45, 1257-1262.	1.3	3
21	The Electromagnetic and Thermal Analysis of an Air-Core Pulsed Alternator Driving the Railgun. , 2019, , .		3
22	Structural Design and Process Technology of a Seven-Phase Air-Core Pulsed Alternator. , 2021, , .		3
23	A Novel Preliminary Design Method of PMSM Drive System for Minimizing Acceleration Time of High-Speed and Large-Inertia Flywheel Rotor Load. , 2019, , .		2
24	Design and transient experimental analysis of a pulsed brushless doubly fed alternator in a capacitor charge power supply system. IET Electric Power Applications, 2022, 16, 126.	1.8	2
25	Energy Recovery of Air-Core Pulsed Alternators After Discharge Process. , 2021, , .		1
26	A Novel Operation Principle of Air-core Pulsed Alternators to Achieve Multiple Railgun Launches. , 2020, , .		1
27	Transient analysis of air-core pulsed alternators in self-excitation mode. , 2014, , .		0
28	Maximum Efficiency Per Nm Control for Permanent Magnet Synchronous Motor Drives Based on Geometric Tangent Method. , 2019, , .		0
29	Initial State Analysis of Pulsed Brushless Doubly Fed Alternator Charging Capacitor. , 2021, , .		0