

## List of Publications by Citations

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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.

90 papers	834 citations	14 h-index	25 g-index
116 ext. papers	1,081 ext. citations	3.6 avg, IF	4.62 L-index

#	Paper	IF	Citations
90	Application of Linear Active Disturbance Rejection Controller for Sensorless Control of Internal Permanent-Magnet Synchronous Motor. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 3019-3027	8.9	108
89	Specifications and Design of a PM Electric Variable Transmission for Toyota Prius II. <i>IEEE Transactions on Vehicular Technology</i> , <b>2011</b> , 60, 4106-4114	6.8	83
88	Interturn Fault Diagnosis Strategy for Interior Permanent-Magnet Synchronous Motor of Electric Vehicles Based on Digital Signal Processor. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 1694-1706	8.9	49
87	The Study of the Operation Modes and Control Strategies of an Advanced Electromechanical Converter for Automobiles. <i>IEEE Transactions on Magnetics</i> , <b>2007</b> , 43, 430-433	2	48
86	A Novel Magnetic Coupling Mechanism for Dynamic Wireless Charging System for Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 124-133	6.8	38
85	A Fuzzy Logic Global Power Management Strategy for Hybrid Electric Vehicles Based on a Permanent Magnet Electric Variable Transmission. <i>Energies</i> , <b>2012</b> , 5, 1175-1198	3.1	34
84	Analysis and Design of Multiphase Receiver With Reduction of Output Fluctuation for EV Dynamic Wireless Charging System. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 4112-4124	7.2	31
83	Overview of Pulsed Alternators. <i>IEEE Transactions on Plasma Science</i> , <b>2017</b> , 45, 1078-1085	1.3	24
82	Global modeling and control strategy simulation. <i>IEEE Vehicular Technology Magazine</i> , <b>2009</b> , 4, 73-79	9.9	20
81	Multiphase PMSM With Asymmetric Windings for More Electric Aircraft. <i>IEEE Transactions on Transportation Electrification</i> , <b>2020</b> , 6, 1592-1602	7.6	18
80	Investigation of Multiphase Compulsator Systems Using a Co-Simulation Method of FEM-Circuit Analysis. <i>IEEE Transactions on Plasma Science</i> , <b>2013</b> , 41, 1247-1253	1.3	17
79	Design and Analysis of a High-Speed Permanent Magnet Compensated Pulsed Alternator. <i>IEEE Transactions on Plasma Science</i> , <b>2017</b> , 45, 1314-1320	1.3	17
78	Sensorless Control Strategy for IPMSM to Reduce Audible Noise by Variable Frequency Current Injection. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 1149-1159	8.9	17
77	Research on the Power Management Strategy of Hybrid Electric Vehicles Based on Electric Variable Transmissions. <i>Energies</i> , <b>2014</b> , 7, 934-960	3.1	15
76	Comparisons of Electric Vehicles Using Modular Cascade Machines System and Classical Single Drive Electric Machine. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 354-361	6.8	14
75	Design of a permanent magnet electric variable transmission for HEV applications <b>2010</b> ,		13
74	Research on a New Accurate Thrust Control Strategy for Linear Induction Motor. <i>IEEE Transactions on Plasma Science</i> , <b>2015</b> , 43, 1321-1325	1.3	11

73	Design and Analysis of Counter-Rotating Dual Rotors Permanent Magnet Compensated Pulsed Alternator. <i>IEEE Transactions on Plasma Science</i> , <b>2017</b> , 45, 1101-1107	1.3	10
72	Research on the Thermal Field and Active Water Cooling System Design of an Air-Core Compulsator. <i>IEEE Transactions on Plasma Science</i> , <b>2011</b> , 39, 257-262	1.3	10
71	Choice of Pole Spacer Materials for a High-Speed PMSM Based on the Temperature Rise and Thermal Stress. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-5	1.8	10
70	Mechanical Analysis and Evaluation of Compulsator. <i>IEEE Transactions on Plasma Science</i> , <b>2011</b> , 39, 322-327	1.3	9
69	Design, Simulation, and Fabrication of a Hybrid Excitation Compulsator. <i>IEEE Transactions on Plasma Science</i> , <b>2011</b> , 39, 251-256	1.3	9
68	A Narrow-Rail Three-Phase Magnetic Coupler With Uniform Output Power for EV Dynamic Wireless Charging. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 6456-6469	8.9	9
67	A Hybrid Electric Vehicle Dynamic Optimization Energy Management Strategy Based on a Compound-Structured Permanent-Magnet Motor. <i>Energies</i> , <b>2018</b> , 11, 2212	3.1	9
66	Eddy Current Losses Analysis and Optimization Design of Litz-Wire Windings for Air-Core Compulsators. <i>IEEE Transactions on Plasma Science</i> , <b>2019</b> , 47, 2532-2538	1.3	8
65	Thermal Analysis of Fifteen-Phase Permanent Magnet Synchronous Motor Under Different Fault Tolerant Operations. <i>IEEE Access</i> , <b>2019</b> , 7, 81466-81480	3.5	7
64	Design of a Paralleled SiC MOSFET Half-Bridge Unit With Distributed Arrangement of DC Capacitors. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 10879-10891	7.2	7
63	Sensitivity Analysis and Regulation Strategy of Current Waveform for Two-Axis-Compensated Compulsators. <i>IEEE Transactions on Plasma Science</i> , <b>2013</b> , 41, 1254-1259	1.3	7
62	Design and Analysis of a Two-Phase Two-Axis-Compensated Compulsator. <i>IEEE Transactions on Plasma Science</i> , <b>2015</b> , 43, 1434-1440	1.3	7
61	A Fast and General Method to Calculate Mutual Inductance for EV Dynamic Wireless Charging System. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 2696-2709	7.2	7
60	A Narrow-Width Three Phase Magnetic Coupling Mechanism with Constant Output Power for Electric Vehicles Dynamic Wireless Charging <b>2018</b> ,		7
59	Self-Excitation and Energy Recovery of Air-Core Compulsators. <i>IEEE Transactions on Plasma Science</i> , <b>2017</b> , 45, 1168-1174	1.3	6
58	Mechanical Strength Analysis of Pulsed Alternator Air-Core Rotor. <i>IEEE Transactions on Plasma Science</i> , <b>2019</b> , 47, 2387-2392	1.3	6
57	Optimization Design and Research of a Hybrid Excitation Compulsator. <i>IEEE Transactions on Plasma Science</i> , <b>2013</b> , 41, 1280-1284	1.3	6
56	Electromagnetic Analysis and Design of Switched Reluctance Double-Rotor Machine for Hybrid Electric Vehicles. <i>Energies</i> , <b>2014</b> , 7, 6665-6688	3.1	6

55	Analytical Expression for Discharge Process of Multiphase Air-Core Pulsed Alternators. <i>IEEE Transactions on Plasma Science</i> , <b>2016</b> , 44, 3330-3336	1.3	6
54	Design of the Halbach Hybrid-Excitation Compulsator. <i>IEEE Transactions on Plasma Science</i> , <b>2015</b> , 43, 1377-1380	1.3	5
53	A Flexible Waveform Conditioning Strategy of an Air-Core Pulsed Alternator. <i>IEEE Transactions on Plasma Science</i> , <b>2015</b> , 43, 1398-1404	1.3	5
52	Comprehensive Analysis and Optimal Configurations of the EVT Powertrain. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 9573-9587	6.8	5
51	Design and Simulation of a Self-Excited All-Air-Core and Fabrication of a Separate-Excited All-Iron-Core Passive Compulsator. <i>IEEE Transactions on Magnetics</i> , <b>2009</b> , 45, 261-265	2	5
50	A Novel Arc-Shaped Lightweight Magnetic Coupler for AUV Wireless Power Transfer. <i>IEEE Transactions on Industry Applications</i> , <b>2021</b> , 1-1	4.3	5
49	Research on the Compensation Matching Design and Output Performance for Two-Axis-Compensated Compulsators. <i>IEEE Transactions on Plasma Science</i> , <b>2019</b> , 47, 2445-2451	1.3	4
48	A Dual-Layer Receiver With a Low Aspect Ratio and a Reduced Output Fluctuation for EV Dynamic Wireless Charging. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 10338-10351	7.2	4
47	Impact Factors for Energy Reclamation Control of an Air-Core Pulsed Alternator. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-5	1.8	4
46	The design principle of electric motors and drive systems for electric vehicles <b>2005</b> ,		4
45	A Study on Magnetic Decoupling of Compound-Structure Permanent-Magnet Motor for HEVs Application. <i>Energies</i> , <b>2016</b> , 9, 819	3.1	4
44	Sizing of Modular Cascade Machines System for Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 1278-1287	6.8	4
43	Analytical Derivation of Efficiency Map of an Induction Machine for Electric Vehicle Applications <b>2018</b> ,		4
42	Convex modeling for optimal battery sizing and control of an electric variable transmission powertrain. <i>Oil and Gas Science and Technology</i> , <b>2019</b> , 74, 25	1.9	3
41	Permanent Magnet Compensated Pulsed Alternator for Driving Air-Based Loads. <i>IEEE Transactions on Transportation Electrification</i> , <b>2020</b> , 6, 1497-1507	7.6	3
40	Comparison analysis of power management used in hybrid electric vehicle based on electric variable transmission <b>2016</b> ,		3
39	Simulation Research of a CPA Powered Railgun System. <i>IEEE Transactions on Plasma Science</i> , <b>2013</b> , 41, 1484-1487	1.3	3
38	Research on intelligence torque control for the electrical variable transmission used in hybrid electrical vehicle <b>2011</b> ,		3

37	Energetic Macroscopic Representation and Inversion-Based Control of an Electrical Vehicle Using Modular Cascade Machines <b>2016</b> ,		3
36	A Three-Phase LCC to Single-Phase S Compensation Topology for DWPT-TS System <b>2019</b> ,		3
35	Design and Analysis of Dual-Electric-Excitation Hybrid Excitation Pulsed Alternator. <i>IEEE Transactions on Plasma Science</i> , <b>2019</b> , 47, 2464-2471	1.3	3
34	Research on Bipolar Nonsalient Pole Transmitter for High-Power EV Dynamic Wireless Power Transfer System. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 1-1	7.2	3
33	A Hybrid Modular Cascade Machines System for Electric Vehicles Using Induction Machine and Permanent Magnet Synchronous Machine. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 273-281	6.8	3
32	Unbalanced Reflected Impedances and Compensation of TS Dynamic Wireless Charging System. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 10378-10387	8.9	3
31	High-Efficiency Control Strategy of an Air-Core Pulsed Alternator Pair. <i>IEEE Transactions on Plasma Science</i> , <b>2017</b> , 45, 3342-3348	1.3	2
30	Research of a Modular Pulsed Alternator Power System. <i>IEEE Transactions on Plasma Science</i> , <b>2017</b> , 45, 1406-1413	1.3	2
29	Reduced-Scale Hardware-In-the-Loop Simulation of an Electric Vehicle Using Modular Cascade Machines <b>2017</b> ,		2
28	Overview of multi-machine drive systems for electric and hybrid electric vehicles <b>2014</b> ,		2
27	Research on direct torque control for the electrical variable transmission <b>2010</b> ,		2
26	Research on fault analysis and diagnosis of PMSM in HEV <b>2011</b> ,		2
25	The torque pulsation analysis of a starter generator with concentrated windings based hybrid electric vehicles		2
24	Voltage Stress Calculation and Measurement for Hairpin Winding of EV Traction Machines Driven by SiC MOSFET. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	2
23	Multiphase PMSM with Asymmetric Windings for Electric Drive. <i>Energies</i> , <b>2020</b> , 13, 3765	3.1	2
22	A Novel Magnetic Coupling Mechanism for Dynamic Wireless Charging System for Electric Vehicles <b>2016</b> ,		2
21	Coil Design for High Coupling Performance for Two-phase Receiver of Dynamic Wireless Charging System <b>2019</b> ,		2
20	Study on Synchronization of Air-Core Compensated Pulsed Alternator Pairs. <i>IEEE Transactions on Plasma Science</i> , <b>2019</b> , 47, 2206-2211	1.3	2

19	Sensorless Control of Five-Phase Permanent-Magnet Synchronous Motor Based on Third-Harmonic Space. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	2
18	Mechanism analysis of output fluctuation in a three-phase dynamic wireless charging system. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	2
17	Risk Evaluation for Hybrid Excitation Compulsator. <i>IEEE Transactions on Plasma Science</i> , <b>2015</b> , 43, 1410-1414	4.34	1
16	Study on the Impact of Machine Parameter Variations on Performance of Modular Pulsed Alternator Power System. <i>IEEE Transactions on Plasma Science</i> , <b>2018</b> , 46, 3265-3272	1.3	1
15	Design Optimization of an Electric Variable Transmission for Hybrid Electric Vehicles. <i>Energies</i> , <b>2018</b> , 11, 1118	3.1	1
14	Design Optimization for Unified Field Permanent Magnet Dual Mechanical Ports Machine <b>2014</b> ,		1
13	Optimal design of the rotor of air-core compulsator <b>2012</b> ,		1
12	Reluctance torque analysis and reactance calculation of IPM for HEVs based on FEM <b>2010</b> ,		1
11	Research on resonance based wireless energy transfer device for small mobile equipments <b>2011</b> ,		1
10	Thermal analysis of a Gramme-ring-winding high-speed permanent-magnet motor for pulsed alternator using CFD. <i>IET Electric Power Applications</i> , <b>2020</b> , 14, 2202-2211	1.8	1
9	A Novel Lightweight Design of UUV Underwater Wireless Power Transfer System by Utilizing Fe-Based Nanocrystalline Material <b>2021</b> ,		1
8	Comprehensive optimisation and comparison of multiphase receiver for dynamic wireless charging system. <i>IET Power Electronics</i> , <b>2019</b> , 12, 2475-2484	2.2	1
7	Conducted EMI Investigation of a SiC-Based Multiplexing Converter for EV/PHEV. <i>IEEE Access</i> , <b>2021</b> , 9, 58807-58823	3.5	1
6	Analysis and Design of a Compound-Structure Permanent-Magnet Motor for Hybrid Electric Vehicles. <i>Energies</i> , <b>2018</b> , 11, 2156	3.1	1
5	A Composite Control Strategy for Suppressing the Current Harmonic at the Grid Side of V2G Charger <b>2018</b> ,		1
4	Power Distribution Strategy for an Electric Bus with a Hybrid Energy Storage System. <i>World Electric Vehicle Journal</i> , <b>2021</b> , 12, 154	2.5	0
3	Torque distribution strategy for modular cascade machines used in EVs. <i>IEEE Transactions on Electrical and Electronic Engineering</i> , <b>2019</b> , 14, 924-932	1	
2	Research on Dual-Phase Non-Salient Pole Receiver for EV Dynamic Wireless Power Transfer System. <i>World Electric Vehicle Journal</i> , <b>2021</b> , 12, 157	2.5	

- 1 Current Sensor Fault-Tolerant Control for Five-Phase PMSM Drives Based on Third-Harmonic Space. *IEEE Transactions on Industrial Electronics*, **2022**, 1-1 8.9