

# Jianning Dong

## List of Publications by Year in descending order

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65  
papers

1,411  
citations

304602

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345118

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65  
docs citations

65  
times ranked

1192  
citing authors

#	ARTICLE	IF	CITATIONS
1	A General Single-Sensor Damping Framework for <i>LCL</i> -Equipped High-Speed PMSM Drives. IEEE Transactions on Industrial Electronics, 2023, 70, 5375-5380.	5.2	1
2	Dynamic-Decoupled Active Damping Control Method for Improving Current Transient Behavior of <i>LCL</i> -Equipped High-Speed PMSMs. IEEE Transactions on Power Electronics, 2022, 37, 3259-3271.	5.4	10
3	Extending Winding Function Theory to Incorporate Secondary Effects in the Design of Induction Machines and Drives. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 1915-1924.	3.7	2
4	A Novel Hybrid Analytical Model of Active Magnetic Bearing Considering Rotor Eccentricity and Local Saturation Effect. IEEE Transactions on Industrial Electronics, 2022, 69, 7151-7160.	5.2	7
5	Discrete-Time Dynamic-Decoupled Current Control for <i>LCL</i> -Equipped High-Speed Permanent Magnet Synchronous Machines. IEEE Transactions on Industrial Electronics, 2022, 69, 12414-12425.	5.2	4
6	Design of a Highly Efficient 20-kW Inductive Power Transfer System With Improved Misalignment Performance. IEEE Transactions on Transportation Electrification, 2022, 8, 2384-2399.	5.3	20
7	Nonlinear Semianalytical Model for Axial Flux Permanent-Magnet Machine. IEEE Transactions on Industrial Electronics, 2022, 69, 9804-9816.	5.2	13
8	Continuous Reduced-Order Dynamic Model Based on Energy Balancing for Inductive Power Transfer Systems. IEEE Transactions on Power Electronics, 2022, 37, 9959-9971.	5.4	2
9	Analytical Calculation of Temporal and Circumferential Orders of Radial Force Density Harmonics in External-Rotor and Internal-Rotor Switched Reluctance Machines. IEEE Open Journal of Industry Applications, 2021, 2, 70-81.	4.8	6
10	Compensation Method of Position Estimation Error for High-Speed Surface-Mounted PMSM Drives Based on Robust Inductance Estimation. IEEE Transactions on Power Electronics, 2021, , 1-1.	5.4	10
11	Integrated Solution for Electric Vehicle and Foreign Object Detection in the Application of Dynamic Inductive Power Transfer. IEEE Transactions on Vehicular Technology, 2021, 70, 11365-11377.	3.9	13
12	Analysis of Dynamic Charging Performances of Optimized Inductive Power Transfer Couplers. , 2021, , .		6
13	Efficiency Map based Modelling of Electric Drive for Heavy Duty Electric Vehicles and Sensitivity Analysis. , 2021, , .		0
14	Torque Production Limit of Surface Permanent Magnet Synchronous Machines and Their Electromagnetic Scalability. IEEE Transactions on Industry Applications, 2021, 57, 4353-4362.	3.3	4
15	Simplified Quadratic Optimization-Based IPMSM Full-Speed Range Rotor Position Estimation in Synchronous Rotating Frame. IEEE Transactions on Transportation Electrification, 2021, 7, 1527-1536.	5.3	0
16	Thermal Cycling in Converter IGBT Modules with Different Cooling Systems in Pitch- and Active Stall-Controlled Tidal Turbines. Energies, 2021, 14, 6457.	1.6	1
17	Hybrid Approach for the Modeling of Magnetic Force Excitations in Multipole Wind Turbine Generators Considering Air Gap Imperfections. , 2021, , .		1
18	Analytical Modeling of Misalignment in Axial Flux Permanent Magnet Machine. IEEE Transactions on Industrial Electronics, 2020, 67, 4433-4443.	5.2	23

#	ARTICLE	IF	CITATIONS
19	An Improved Deadbeat Predictive Current Control With Online Parameter Identification for Surface-Mounted PMSMs. IEEE Transactions on Industrial Electronics, 2020, 67, 10145-10155.	5.2	68
20	Analysis of Magnetic Field Emissions in Inductive Power Transfer EV Chargers Following Reference Designs in SAE J2954/2019. , 2020, , .		3
21	Compensation Network for a 7.7 kW Wireless Charging System that Uses Standardized Coils. , 2020, , .		6
22	Detection of Metallic Foreign Objects and Electric Vehicles Using Auxiliary Coil Sets for Dynamic Inductive Power Transfer Systems. , 2020, , .		6
23	Acoustic Noise Analysis of Interior Permanent Magnet Synchronous Machine for Electric Vehicle Application. , 2020, , .		9
24	Prediction of acoustic noise and vibration of a 24/16 traction switched reluctance machine. IET Electrical Systems in Transportation, 2020, 10, 35-43.	1.5	10
25	Performance of Multi-Layer and Stator-Shifting Fractional-Slot Concentrated Windings for Superconducting Wind Turbine Generators Under Normal and Short-Circuit Operation Conditions. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.1	1
26	Investigation Into Multi-Phase Armature Windings for High-Temperature Superconducting Wind Turbine Generators. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.1	2
27	Rotor Eddy Current Loss Reduction With Permeable Retaining Sleeve for Permanent Magnet Synchronous Machine. IEEE Transactions on Energy Conversion, 2020, 35, 1088-1097.	3.7	20
28	Position Sensorless Drive and Online Parameter Estimation for Surface-Mounted PMSMs Based on Adaptive Full-State Feedback Control. IEEE Transactions on Power Electronics, 2020, 35, 7341-7355.	5.4	33
29	Lifetime Analysis of IGBT Power Modules in Passively Cooled Tidal Turbine Converters. Energies, 2020, 13, 1875.	1.6	7
30	Fast calculation of carrier harmonic iron losses caused by pulse width modulation in interior permanent magnet synchronous motors. IET Electric Power Applications, 2020, 14, 1163-1176.	1.1	12
31	Quality Factor Based Design Guideline for Optimized Inductive Power Transfer. , 2020, , .		1
32	Modeling and Analysis of Electric Motors: State-of-the-Art Review. IEEE Transactions on Transportation Electrification, 2019, 5, 602-617.	5.3	77
33	Online Parameter Estimation of PMSM in EV Powertrain Including Thermal Measurements. , 2019, , .		0
34	Survey on Standards and Regulations for Wireless Charging of Electric Vehicles. , 2019, , .		15
35	Comparison of Magnetic Couplers for IPT-Based EV Charging Using Multi-Objective Optimization. IEEE Transactions on Vehicular Technology, 2019, 68, 5416-5429.	3.9	71
36	Comparative Study of Foreign Object and Misalignment in Inductive Power Transfer Systems. , 2019, , .		7

#	ARTICLE	IF	CITATIONS
37	A New Hybrid Method for Magnetic Field Calculation in IPMSM Accounting for Any Rotor Configuration. IEEE Transactions on Industrial Electronics, 2019, 66, 5015-5024.	5.2	30
38	General Analytical Modeling for Magnet Demagnetization in Surface Mounted Permanent Magnet Machines. IEEE Transactions on Industrial Electronics, 2019, 66, 5830-5838.	5.2	34
39	Comparison of Optimized Chargepads for Wireless EV Charging Application. , 2019, , .		1
40	Availability of Wind Turbine Converters With Extreme Modularity. IEEE Transactions on Sustainable Energy, 2018, 9, 1772-1782.	5.9	8
41	Advanced Dynamic Modeling of Three-Phase Mutually Coupled Switched Reluctance Machine. IEEE Transactions on Energy Conversion, 2018, 33, 146-154.	3.7	24
42	Determining Relation Between Size of Polarized Inductive Couplers and Nominal Airgap. , 2018, , .		0
43	A Study on Passive Cooling in Subsea Power Electronics. IEEE Access, 2018, 6, 67543-67554.	2.6	7
44	Hybrid Acoustic Noise Analysis Approach of Conventional and Mutually Coupled Switched Reluctance Motors. IEEE Transactions on Energy Conversion, 2017, 32, 1042-1051.	3.7	35
45	Comparison of modular wind turbine generators considering structural aspects. , 2017, , .		0
46	Study on dynamic characteristic of wind turbine emulator based on PMSM. Renewable Energy, 2016, 97, 731-736.	4.3	29
47	Comparative Study of Surface-Mounted and Interior Permanent-Magnet Motors for High-Speed Applications. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.1	57
48	Overview of wind power generation in China: Status and development. Renewable and Sustainable Energy Reviews, 2015, 50, 847-858.	8.2	82
49	Design and modeling of axial flux permanent magnet machine with yokeless and segment armature using magnetic equivalent circuit. , 2014, , .		4
50	Electromagnetic and Thermal Analysis of Open-Circuit Air Cooled High-Speed Permanent Magnet Machines With Gramme Ring Windings. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	64
51	Development of an air-cooled 150 kW high speed permanent magnet motor with Gramme ring windings for turbo blowers. , 2014, , .		3
52	Magnetic Equivalent Circuit Modeling of Yokeless Axial Flux Permanent Magnet Machine With Segmented Armature. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	41
53	Stator winding design of induction motors for high efficiency. , 2014, , .		8
54	Linear Representation of Saturation Characteristics Associated With Eddy Currents in Ferromagnetic Materials. IEEE Transactions on Magnetics, 2014, 50, 121-124.	1.2	2

#	ARTICLE	IF	CITATIONS
55	Thermal Optimization of a High-Speed Permanent Magnet Motor. IEEE Transactions on Magnetics, 2014, 50, 749-752.	1.2	76
56	Core Loss Analysis and Calculation of Stator Permanent-Magnet Machine Considering DC-Biased Magnetic Induction. IEEE Transactions on Industrial Electronics, 2014, 61, 5203-5212.	5.2	108
57	Analysis of a Novel Switched-Flux Memory Motor Employing a Time-Divisional Magnetization Strategy. IEEE Transactions on Magnetics, 2014, 50, 849-852.	1.2	49
58	3-D Analytical Modeling of No-Load Magnetic Field of Ironless Axial Flux Permanent Magnet Machine. IEEE Transactions on Magnetics, 2012, 48, 2929-2932.	1.2	57
59	An axial flux flywheel motor/generator for pulsed power application. , 2012, , .		5
60	Core Loss Modeling for Permanent-Magnet Motor Based on Flux Variation Locus and Finite-Element Method. IEEE Transactions on Magnetics, 2012, 48, 1023-1026.	1.2	83
61	Eddy-Current Loss Prediction in the Rotor Magnets of a Permanent Magnet Synchronous Generator With Modular Winding Feeding a Rectifier Load. IEEE Transactions on Magnetics, 2011, 47, 4203-4206.	1.2	20
62	Analysis Method to A Halbach PM Ironless Linear Motor With Trapezoid Windings. IEEE Transactions on Magnetics, 2011, 47, 4167-4170.	1.2	23
63	Research on Power Frequency Electromagnetic Environment of UHVAC Wires and Related Electrostatic Induction Effect. IEEE Transactions on Magnetics, 2011, 47, 3516-3519.	1.2	2
64	Electromagnetic Performance Analysis of Hybrid-Excited Flux-Switching Machines by a Nonlinear Magnetic Network Model. IEEE Transactions on Magnetics, 2011, 47, 3216-3219.	1.2	44
65	Analysis of the Oversaturated Effect in Hybrid Excited Flux-Switching Machines. IEEE Transactions on Magnetics, 2011, 47, 2827-2830.	1.2	44