Youtong Fang

List of Publications by Citations

138 papers	1,039 citations	15 h-index	25 g-index
186 ext. papers	1,444 ext. citations	4.1 avg, IF	5.04 L-index

#	Paper	IF	Citations
138	Design of a Five-Phase Brushless DC Motor for a Safety Critical Aerospace Application. *IEEE Transactions on Industrial Electronics*, **2012**, 59, 3532-3541	8.9	65
137	A Single Sided Matrix Converter Drive for a Brushless DC Motor in Aerospace Applications. *IEEE Transactions on Industrial Electronics*, **2012**, 59, 3542-3552	8.9	63
136	On-Load Field Prediction in SPM Machines by a Subdomain and Magnetic Circuit Hybrid Model. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 7190-7201	8.9	44
135	Slotted Permanent-Magnet Machines: General Analytical Model of Magnetic Fields, Torque, Eddy Currents, and Permanent-Magnet Power Losses Including the Diffusion Effect. *IEEE Transactions on Magnetics*, **2016**, 52, 1-13	2	36
134	Analysis of a Novel Double-Sided Yokeless Multitooth Linear Switched-Flux PM Motor. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 1837-1845	8.9	35
133	A Nonlinear Subdomain and Magnetic Circuit Hybrid Model for Open-Circuit Field Prediction in Surface-Mounted PM Machines. *IEEE Transactions on Energy Conversion*, **2019**, 34, 1485-1495	5.4	34
132	Solar PV-Powered SRM Drive for EVs With Flexible Energy Control Functions. *IEEE Transactions on Industry Applications*, **2016**, 52, 3357-3366	4.3	27
131	A Hybrid Field Model for Open-Circuit Field Prediction in Surface-Mounted PM Machines Considering Saturation. *IEEE Transactions on Magnetics*, **2018**, 54, 1-12	2	27
130	A Simple and Practical Duty Cycle Modulated Direct Torque Control for Permanent Magnet Synchronous Motors. *IEEE Transactions on Power Electronics*, **2019**, 34, 1572-1579	7.2	24
129	A Novel Doubly-Fed Flux-Switching Permanent Magnet Machine With Armature Windings Wound on Both Stator Poles and Rotor Teeth. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 10223-10232	8.9	23
128	Finite-Level-State Model Predictive Control for Sensorless Three-Phase Four-Arm Modular Multilevel Converter. *IEEE Transactions on Power Electronics*, **2020**, 35, 4462-4466	7.2	22
127	Improved Flux-Weakening Control of IPMSMs Based on Torque Feedforward Technique. *IEEE Transactions on Power Electronics*, **2018**, 33, 10970-10978	7.2	19
126	Thrust Force of Novel PM Transverse Flux Linear Oscillating Actuators With Moving Magnet. *IEEE Transactions on Magnetics*, **2011**, 47, 4211-4214	2	18
125	Dislocation Strengthening without Ductility Trade-off in Metastable Austenitic Steels. *Scientific Reports*, **2016**, 6, 35345	4.9	18
124	Compensation of DC-Link Voltage Fluctuation for Railway Traction PMSM in Multiple Low-Switching-Frequency Synchronous Space Vector Modulation Modes. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 235-250	6.8	15
123	Construction of FeS2-Sensitized ZnO@ZnS Nanorod Arrays with Enhanced Optical and Photoresponse Performances. *Advanced Materials Interfaces*, **2015**, 2, 1500163	4.6	15
122	Design and Performance Investigation of Novel Linear Switched Flux PM Machines. *IEEE Transactions on Industry Applications*, **2017**, 53, 4590-4602	4.3	14

121	A new design method for completely open architecture permanent magnet for MRI. *IEEE Transactions on Magnetics*, **2005**, 41, 1504-1507	2	14
120	A Fast Finite-Level-State Model Predictive Control Strategy for Sensorless Modular Multilevel Converter. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 9, 3570-3581	5.6	14
119	Predictor-Based Neural Network Finite-Set Predictive Control for Modular Multilevel Converter. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 11621-11627	8.9	14
118	Strengthening Effect of Ag Precipitates in Cu□Ag Alloys: A Quantitative Approach. *Materials Research Letters*, **2016**, 4, 37-42	7.4	13
117	A Novel Structure of Doubly Salient Permanent Magnet Machine in Square Envelope. *IEEE Transactions on Magnetics*, **2019**, 55, 1-5	2	12
116	Magnetic field design for optimal wireless power transfer to multiple receivers. *IET Power Electronics*, **2016**, 9, 1885-1893	2.2	12
115	Multialgorithm Fusion Image Processing for High Speed Railway Dropper Failure□Defect Detection. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 51, 4466-4478	7.3	12
114	Adaptive Torque Ripple Suppression Methods of Three-Phase PMSM During Single-Phase Open-Circuit Fault-Tolerant Operation. *IEEE Transactions on Industry Applications*, **2020**, 56, 4955-4965	4.3	11
113	Optimization Research on a Switching Power Amplifier and a Current Control Strategy of Active Magnetic Bearing. *IEEE Access*, **2020**, 8, 34833-34841	3.5	11
112	High-torque-density pseudo-direct-drive permanent-magnet machine with less magnet. *IET Electric Power Applications*, **2018**, 12, 37-44	1.8	11
111	Predicting Iron Losses in Laminated Steel with Given Non-Sinusoidal Waveforms of Flux Density. *Energies*, **2015**, 8, 13726-13740	3.1	11
110	Space Vector Modulation for SiC and Si Hybrid ANPC Converter in Medium-Voltage High-Speed Drive System. *IEEE Transactions on Power Electronics*, **2020**, 35, 3390-3401	7.2	11
109	Analytical Modeling of a Novel Vernier Pseudo-Direct-Drive Permanent-Magnet Machine. *IEEE Transactions on Magnetics*, **2017**, 53, 1-4	2	10
108	Design of a Dual-Stator Superconducting Permanent Magnet Wind Power Generator With Different Rotor Configuration. *IEEE Transactions on Magnetics*, **2017**, 53, 1-4	2	10
107	DC-Link-Fluctuation-Resistant Predictive Torque Control for Railway Traction Permanent Magnet Synchronous Motor in the Six-Step Operation. *IEEE Transactions on Power Electronics*, **2020**, 35, 10982-10993	7.3	10
106	An Improved Magnetic Circuit Model of a 3-DOF Magnetic Bearing Considering Leakage and Cross-Coupling Effects. *IEEE Transactions on Magnetics*, **2017**, 53, 1-6	2	10
105	Optimal design and FEM analysis of the superconducting magnets of EMS-MAGLEV models using Bi-2223 tapes. *IEEE Transactions on Applied Superconductivity*, **2004**, 14, 1850-1853	1.8	10
104	A Subdomain Model for Open-Circuit Field Prediction in Dual-Stator Consequent-Pole Permanent Magnet Machines. *IEEE Transactions on Magnetics*, **2019**, 55, 1-12	2	9

103	A Hybrid Interior Permanent Magnet Variable Flux Memory Machine Using Two-Part Rotor. *IEEE Transactions on Magnetics*, **2019**, 55, 1-8	2	9
102	Motor-Driven Giant Magnetostrictive Actuator. *IEEE Transactions on Magnetics*, **2015**, 51, 1-7	2	9
101	FeS2-sensitized ZnO/ZnS nanorod arrays for the photoanodes of quantum-dot-sensitized solar cells. *RSC Advances*, **2015**, 5, 105324-105328	3.7	9
100	Event-Triggered Neural Predictor-Based FCS-MPC for MMC. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	9
99	Predicting Iron Losses in Soft Magnetic Materials Under DC Bias Conditions Based on Steinmetz Premagnetization Graph. *IEEE Transactions on Magnetics*, **2016**, 52, 1-4	2	8
98	Comparison of synchronization control techniques for traction motors of high-speed trains **2014**,		8
97	Dynamic Reluctance Mesh Modeling and Losses Evaluation of Permanent Magnet Traction Motor. *IEEE Transactions on Magnetics*, **2017**, 53, 1-4	2	7
96	In SituStudy of Thermal Stability of Copper Oxide Nanowires at Anaerobic Environment. *Journal of Nanomaterials*, **2014**, 2014, 1-6	3.2	7
95	Cracking in a Fe□5Mn□Si□Al Steel. *Materials Research Letters*, **2014**, 2, 204-208	7.4	7
94	Optimal Design of Outer Rotor Interior Permanent Magnet Synchronous Machine With Hybrid Permanent Magnet. *IEEE Transactions on Applied Superconductivity*, **2019**, 29, 1-5	1.8	6
93	Analysis of Inductance Calculation of Coaxial Circular Coils With Rectangular Cross Section Using Inverse Hyperbolic Functions. *IEEE Transactions on Applied Superconductivity*, **2015**, 25, 1-9	1.8	6
92	A Novel Design Method of Passive Shimming for 0.7-T Biplanar Superconducting MRI Magnet. *IEEE Transactions on Applied Superconductivity*, **2016**, 26, 1-5	1.8	6
91	Prediction Error Analysis of Finite-Control-Set Model Predictive Current Control for IPMSMs. *Energies*, **2018**, 11, 2051	3.1	6
90	Investigation of double-sided multi-tooth switched-flux linear motor **2015**,		6
89	Neural Predictor-Based Low Switching Frequency FCS-MPC for MMC With Online Weighting Factors Tuning. *IEEE Transactions on Power Electronics*, **2022**, 37, 4065-4079	7.2	6
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87	Harmonic Torque Suppression Methods for Single-Phase Open-Circuit Fault-Tolerant Operation of PMSM Considering Third Harmonic BEMF. *IEEE Transactions on Power Electronics*, **2021**, 36, 1116-1129	7.2	6
86	Comparison of Subdomain, Complex Permeance, and Relative Permeance Models for a Wide Family of Permanent-Magnet Machines. *IEEE Transactions on Magnetics*, **2021**, 57, 1-5	2	6

85	Modeling of a Novel 12-Stator-Pole/10-Rotor-Tooth Doubly-Fed Flux-Switching Permanent Magnet Machine. *IEEE Transactions on Energy Conversion*, **2021**, 36, 2206-2216	5.4	6
84	A Fuzzy Approximation for FCS-MPC in Power Converters. *IEEE Transactions on Power Electronics*, **2022**, 1-1	7.2	6
83	A Novel Single-PM-Array Magnetic Gear With HTS Bulks. *IEEE Transactions on Applied Superconductivity*, **2017**, 27, 1-5	1.8	5
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67	Enhancing the ag precipitation by surface mechanical attrition treatment on Cu-Ag alloys. *Metals and Materials International*, **2016**, 22, 831-835	2.4	4
66	Investigation of cross-coupling effect of a 3-DOF magnetic bearing using magnetic circuit method **2017**,		4
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64	Stator Design Aspects for Permanent Magnet Superconducting Wind Power Generators. *IEEE Transactions on Applied Superconductivity*, **2019**, 29, 1-5	1.8	4
63	Influence of Dimensional Parameters on Three-Phase Short Circuit and Demagnetization in Surface-Mounted PM Machines. *IEEE Transactions on Energy Conversion*, **2021**, 36, 2514-2523	5.4	4
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61	Data-Driven Neural Predictors Based Robust MPC for Power Converters. *IEEE Transactions on Power Electronics*, **2022**, 1-1	7.2	4
60	Magnetic Field Prediction in Surface-Mounted PM Machines with Parallel Slot Based on a Nonlinear Subdomain and Magnetic Circuit Hybrid Model **2019**,		3
59	Torque Ripple Reduction of a Salient-Pole Permanent Magnet Synchronous Machine With an Advanced Step-Skewed Rotor Design. *IEEE Access*, **2020**, 8, 118989-118999	3.5	3
58	Fast Finite-Set Model Predictive Control for Three-Phase Four-Arm Active Front End Modular Multilevel Converters Under Unbalanced and Distorted Network Conditions. *IEEE Access*, **2020**, 8, 30504-30514	3.5	3
57	Shim Coil Set for an Open Biplanar MRI System Using an Inverse Boundary Element Method. *IEEE Transactions on Applied Superconductivity*, **2016**, 26, 1-5	1.8	3
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55	A comparative study on two outer rotor PMSMs for in-wheel direct drive under short-circuit faults **2017**,		3
54	Single- and Two-Phase Open-Circuit Fault Tolerant Control for Dual Three-Phase PM Motor Without Phase Shifting. *IEEE Access*, **2020**, 8, 171945-171955	3.5	3
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52	Effect of Co addition on hardness and electrical conductivity of Cu–Si alloys. *Journal of Materials Science*, **2021**, 56, 14821-14831	4.3	3
51	Optimal Simultaneous PWM Control for Three- Phase Dual-Active-Bridge Converters to Minimize Current Stress in the Whole Load Range. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 9, 5822-5837	5.6	3
50	Analysis of Dual-Armature Flux Reversal Permanent Magnet Machines with Halbach Array Magnets. *IEEE Transactions on Energy Conversion*, **2021**, 1-1	5.4	3

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48	Comparative Study Between Doubly Salient PM Machine with New Stator/Rotor-Pole Number Combination and Biased Flux PM Machine **2019**,		2
47	Investigation of PMLM with different type winding for ropeless elevator **2015**,		2
46	Improved Stator/Rotor-Pole Number Combinations for Torque Ripple Reduction in Doubly Salient PM Machines **2019**,		2
45	A novel transverse-flux switched-flux PM linear motor **2013**,		2
44	Performance investigation of a novel multi-tooth switched-flux linear motor **2015**,		2
43	Design and analysis of hybrid excitation rail eddy current brake system of high-speed train **2011**,		2
42	Improved Model Predictive Control for Three-Phase Dual-Active-Bridge Converters With a Hybrid Modulation. *IEEE Transactions on Power Electronics*, **2021**, 1-1	7.2	2
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37	Comparison of PMSMs with Different Rotor Structures for EV Application **2018**,		2
36	A Novel Structure of Doubly Salient Permanent Magnet Machine **2018**,		2
35	. *IEEE Transactions on Power Electronics*, **2021**, 36, 10409-10419	7.2	2
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33	Influence of Clamping Bolts on Electromagnetic Performance of PMSM Machines and Its Restraining Methods. *IEEE Transactions on Industry Applications*, **2019**, 55, 4567-4577	4.3	1
32	Influence of Load Characteristics on Three-Phase Short Circuit and Demagnetization of Surface-Mounted PM Synchronous Motor **2019**,		1

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29	Optimal charging method for mismatched transceiver coils in wireless power transfer **2017**,		1
28	Optimal power transfer with aluminum shielding for wireless power transfer systems **2017**,		1
27	Performance and control method of PMSMs traction system in high speed train under passing neutral section condition **2015**,		1
26	Tri-port converter for flexible energy control of PV-fed electric vehicles **2015**,		1
25	Thermal analysis of a brushless DC motor for aerospace application using thermal network models **2013**,		1
24	Design of in-wheel permanent magnet synchronous motor with concentrated fractional-slot winding and winding switching technology **2013**,		1
23	Predicting Airflow Distribution in A Radially Air-Cooled Generator by Flow Network Method **2020**,		1
22	Influence of Magnet Height on Unbalanced Magnetic Force of Surface-Mounted Permanent Magnet Machines **2016**,		1
21	An Adaptive Torque Ripple Suppression Method of Three-Phase PMSM During Single-Phase Open-Circuit Fault-Tolerant Operation **2019**,		1
20	Dynamic Modeling of Surface-Mounted Permanent Magnet Motors Considering Saturation **2019**,		1
19	Influence of Clamping Bolts on Electromagnetic Performance of PMSM Machines and its Restraining Methods **2018**,		1
18	Lyapunov-Based Fast Finite-State Model Predictive Control for Sensorless Three-Phase Four-Arm MMC. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 1-1	5.6	1
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