Shuangxia Niu

List of Publications by Citations

169 papers	2,328 citations	27 h-index	39 g-index
198 ext. papers	2,891 ext. citations	3.6 avg, IF	5.87 L-index

#	Paper	IF	Citations
169	Quantitative Comparison of Novel Vernier Permanent Magnet Machines. *IEEE Transactions on Magnetics*, **2010**, 46, 2032-2035	2	112
168	Design and Comparison of Vernier Permanent Magnet Machines. *IEEE Transactions on Magnetics*, **2011**, 47, 3280-3283	2	94
167	Development of a New Brushless Doubly Fed Doubly Salient Machine for Wind Power Generation. *IEEE Transactions on Magnetics*, **2006**, 42, 3455-3457	2	82
166	Design and Control of a New Double-Stator Cup-Rotor Permanent-Magnet Machine for Wind Power Generation. *IEEE Transactions on Magnetics*, **2007**, 43, 2501-2503	2	68
165	A scenario of vehicle-to-grid implementation and its double-layer optimal charging strategy for minimizing load variance within regional smart grids. *Energy Conversion and Management*, **2014**, 78, 508-517	106	64
164	Comparison of Stator-Permanent-Magnet Brushless Machines. *IEEE Transactions on Magnetics*, **2008** , 44, 4405-4408	2	60
163	Design Optimization and Comparative Study of Novel Dual-PM Excited Machines. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 9924-9933	8.9	56
162	Design and Control of a PM Brushless Hybrid Generator for Wind Power Application. *IEEE Transactions on Magnetics*, **2006**, 42, 3497-3499	2	52
161	A Novel Stator and Rotor Dual PM Vernier Motor With Space Vector Pulse Width Modulation. *IEEE Transactions on Magnetics*, **2014**, 50, 805-808	2	50
160	A Novel Hybrid Dual-PM Machine Excited by AC With DC Bias for Electric Vehicle Propulsion. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 6908-6919	8.9	48
159	Design and Optimization of a New Magnetic-Geared Pole-Changing Hybrid Excitation Machine. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 9943-9952	8.9	45
158	A Novel Direct-Drive Dual-Structure Permanent Magnet Machine. *IEEE Transactions on Magnetics*, **2010**, 46, 2036-2039	2	42
157	A Novel Hybrid-Excited Dual-PM Machine With Bidirectional Flux Modulation. *IEEE Transactions on Energy Conversion*, **2017**, 32, 424-435	5.4	39
156	A Novel Double-Stator Double-Rotor Brushless Electrical Continuously Variable Transmission System. *IEEE Transactions on Magnetics*, **2013**, 49, 3909-3912	2	39
155	Development of a Magnetless Flux Switching Machine for Rooftop Wind Power Generation. *IEEE Transactions on Energy Conversion*, **2015**, 30, 1703-1711	5.4	38
154	. *IEEE Transactions on Magnetics*, **2010**, 46, 2074-2077	2	36
153	. *IEEE Transactions on Magnetics*, **2012**, 48, 1007-1010	2	35

152	Design of a Novel Electrical Continuously Variable Transmission System Based on Harmonic Spectra Analysis of Magnetic Field. *IEEE Transactions on Magnetics*, **2013**, 49, 2161-2164	2	35
151	Sensitivity Analysis and Optimal Design of a Dual Mechanical Port Bidirectional Flux-Modulated Machine. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 211-220	8.9	34
150	Overview of flux-controllable machines: Electrically excited machines, hybrid excited machines and memory machines. *Renewable and Sustainable Energy Reviews*, **2017**, 68, 475-491	16.2	33
149	Design of a Novel Parallel-Hybrid-Excited Dual-PM Machine Based on Armature Harmonics Diversity for Electric Vehicle Propulsion. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 4209-4219	8.9	32
148	Design of a Novel Parallel-Hybrid-Excited Vernier Reluctance Machine with Improved Utilization of Redundant Winding Harmonics. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 9056-9067	8.9	30
147	Performance Analysis of a Novel Magnetic-Geared Tubular Linear Permanent Magnet Machine. *IEEE Transactions on Magnetics*, **2011**, 47, 3598-3601	2	30
146	Design and Optimization of a Novel Slot-PM-Assisted Variable Flux Reluctance Generator for Hybrid Electric Vehicles. *IEEE Transactions on Energy Conversion*, **2018**, 33, 2102-2111	5.4	29
145	Analysis of Eddy-Current Loss in a Double-Stator Cup-Rotor PM Machine. *IEEE Transactions on Magnetics*, **2008**, 44, 4401-4404	2	29
144	A Quantitative Comparison Study of Power-Electronic-Driven Flux-Modulated Machines Using Magnetic Field and Thermal Field Co-Simulation. *IEEE Transactions on Industrial Electronics*, **2015**, 62, 6076-6084	8.9	28
143	Electrical-Continuously Variable Transmission System Based on Doubly Fed Flux-Bidirectional Modulation. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 2722-2731	8.9	27
142	Design Optimization of Magnetic Gears Using Mesh Adjustable Finite-Element Algorithm for Improved Torque. *IEEE Transactions on Magnetics*, **2012**, 48, 4156-4159	2	27
141	A Novel Contra-Rotating Power Split Transmission System for Wind Power Generation and Its Dual MPPT Control Strategy. *IEEE Transactions on Power Electronics*, **2017**, 32, 6924-6935	7.2	26
140	Quantitative comparison of double-stator and traditional permanent magnet brushless machines. *Journal of Applied Physics*, **2009**, 105, 07F105	2.5	26
139	Differential Evolution-Based Multiobjective Optimization of the Electrical Continuously Variable Transmission System. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 2080-2089	8.9	26
138	Design of an Electrical Continuously Variable Transmission Based Wind Energy Conversion System. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 6745-6755	8.9	24
137	Design and Analysis of a Novel Axial-Flux Electric Machine. *IEEE Transactions on Magnetics*, **2011**, 47, 4368-4371	2	24
136	A New Relieving-DC-Saturation Hybrid Excitation Vernier Machine for HEV Starter Generator Application. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 6342-6353	8.9	24
135	Robust Model Predictive Control for a Three-Phase PMSM Motor With Improved Control Precision. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 838-849	8.9	24

134	A New Slot-PM Vernier Reluctance Machine With Enhanced Zero-Sequence Current Excitation for Electric Vehicle Propulsion. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 3528-3539	8.9	22
133	Design and Analysis of a Magnetless Double-Rotor Flux Switching Motor for Low Cost Application. *IEEE Transactions on Magnetics*, **2014**, 50, 1-4	2	21
132	A Novel Solid-Rotor Induction Motor With Skewed Slits in Radial and Axial Directions and Its Performance Analysis Using Finite Element Method. *IEEE Transactions on Applied Superconductivity*, **2010**, 20, 1089-1092	1.8	21
131	Design and analysis of novel magnetic flux-modulated mnemonic machines. *IET Electric Power Applications*, **2015**, 9, 469-477	1.8	20
130	A Design Method of Magnetically Resonanting Wireless Power Delivery Systems for Bio-Implantable Devices. *IEEE Transactions on Magnetics*, **2011**, 47, 3833-3836	2	20
129	Design of a New Relieving-DC-Saturation Hybrid Reluctance Machine for Fault-Tolerant In-Wheel Direct Drive. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 9571-9581	8.9	20
128	Design Optimization and Comparative Study of Novel Magnetic-Geared Permanent Magnet Machines. *IEEE Transactions on Magnetics*, **2017**, 53, 1-4	2	19
127	A Novel Magnetic-Geared Tubular Linear Machine With Halbach Permanent-Magnet Arrays for Tidal Energy Conversion. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	19
126	Design of a Novel Consequent-Pole Transverse-Flux Machine With Improved Permanent Magnet Utilization. *IEEE Transactions on Magnetics*, **2017**, 53, 1-5	2	18
125	Design, Modeling, and Control of a Novel Hybrid-Excited Flux-Bidirectional-Modulated Generator-Based Wind Power Generation System. *IEEE Transactions on Power Electronics*, **2018**, 33, 3086-3096	7.3	18
124	Comparative Analysis of Bearing Current in Wind Turbine Generators. *Energies*, **2018**, 11, 1305	3.1	17
123	Torque Component Quantification and Design Guideline for Dual Permanent Magnet Vernier Machine. *IEEE Transactions on Magnetics*, **2019**, 55, 1-5	2	16
122	A Novel Dual-Permanent-Magnet-Excited Machine With Non-Uniformly Distributed Permanent-Magnets and Flux Modulation Poles on the Stator. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 7104-7115	6.8	16
121	Design Optimization of a Novel Scale-Down Hybrid-Excited Dual Permanent Magnet Generator for Direct-Drive Wind Power Application. *IEEE Transactions on Magnetics*, **2018**, 54, 1-4	2	15
120	Development of a Novel Transverse Flux Tubular Linear Machine With Parallel and Complementary PM Magnetic Circuit for Precision Industrial Processing. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 4945-4955	8.9	15
119	Maximum Power Point Tracking Sensorless Control of an Axial-Flux Permanent Magnet Vernier Wind Power Generator. *Energies*, **2016**, 9, 581	3.1	15
118	A New Modular Relieving-DC-Saturation Vernier Reluctance Machine Excited by Zero-Sequence Current for Electric Vehicle. *IEEE Transactions on Magnetics*, **2019**, 55, 1-5	2	14
117	An Indirect Reference Vector-Based Model Predictive Control for a Three-Phase PMSM Motor. *IEEE Access*, **2020**, 8, 29435-29445	3.5	14

116	A New Double-Winding Vernier Permanent Magnet Wind Power Generator for Hybrid AC/DC Microgrid Application. *IEEE Transactions on Magnetics*, **2018**, 54, 1-5	2	14
115	Hysteresis Effects of Laminated Steel Materials on Detent Torque in Permanent Magnet Motors. *IEEE Transactions on Magnetics*, **2011**, 47, 3594-3597	2	14
114	Analysis of Rotor Losses in Permanent Magnet Vernier Machines. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	13
113	A Novel Hybrid-Pole Interior PM Machine with Magnet-Axis-Shifting Effect **2019**,		12
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109	Design and Analysis of a New Brushless Electrically Excited Claw-Pole Generator for Hybrid Electric Vehicle. *IEEE Transactions on Magnetics*, **2018**, 54, 1-5	2	11
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104	Design and Optimization of a Novel Dual-PM Machine for Electric Vehicle Applications. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 14391-14400	6.8	11
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99	Multi-Objective Optimization of a Direct-Drive Dual-Structure Permanent Magnet Machine. *IEEE Transactions on Magnetics*, **2019**, 55, 1-4	2	9

98	A Parameterized Mesh Technique for Finite Element Magnetic Field Computation and Its Application to Optimal Designs of Electromagnetic Devices. *IEEE Transactions on Magnetics*, **2011**, 47, 2943-2946	2	9
97	Design and Analysis of a New HTS Double-Stator Doubly Fed Wind Generator. *IEEE Transactions on Applied Superconductivity*, **2015**, 25, 1-4	1.8	8
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94	A Power-Balanced Time-Stepping Finite Element Method for Transient Magnetic Field Computation. *IEEE Transactions on Magnetics*, **2012**, 48, 291-294	2	8
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92	Sensitivity Analysis and Design Optimization of a New Hybrid-Excited Dual-PM Generator With Relieving-DC-Saturation Structure for Stand-Alone Wind Power Generation. *IEEE Transactions on Magnetics*, **2020**, 56, 1-5	2	8
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89	A Novel Structure of Dual-Stator Hybrid Excitation Synchronous Motor. *IEEE Transactions on Applied Superconductivity*, **2016**, 26, 1-5	1.8	7
88	Design and Analysis of a Novel Modular Linear Double-Stator Biased Flux Machine. *IEEE Transactions on Magnetics*, **2018**, 54, 1-5	2	7
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74	A New Hybrid-Excited Electric Continuous Variable Transmission System. *IEEE Transactions on Magnetics*, **2014**, 50, 1-4	2	6
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72	Novel Bearing Current Suppression Approach in Doubly-Fed Induction Generators. *IEEE Access*, **2019**, 7, 171525-171532	3.5	6
71	Optimal Structure Design of Permanent Magnet Motors Based on a General Pattern of Rotor Topologies. *IEEE Transactions on Magnetics*, **2017**, 53, 1-4	2	5
70	A New Dual-Stator Bidirectional-Modulated PM Machine and Its Optimization. *IEEE Transactions on Magnetics*, **2014**, 50, 1-4	2	5
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68	Topology Exploration and Torque Component Analysis of Double Stator Biased Flux Machines Based on Magnetic Field Modulation Mechanism. *IEEE Transactions on Energy Conversion*, **2018**, 33, 584-593	5.4	5
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64	A Novel DC-Coil-Free Hybrid-Excited Machine with Consequent-Pole PM Rotor. *Energies*, **2018**, 11, 700	3.1	4
63	A Position Detection Strategy for Sensorless Surface Mounted Permanent Magnet Motors at Low Speed Using Transient Finite-Element Analysis. *IEEE Transactions on Magnetics*, **2012**, 48, 1003-1006	2	4

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60	Design and optimization of a slot-PM-assisted doubly-salient machine based on saturation assuaging. *Chinese Journal of Electrical Engineering*, **2021**, 7, 65-72	4	4
59	A Novel High-Order-Harmonic Winding Design Method for Vernier Reluctance Machine with DC Coils across Two Stator Teeth. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	4
58	Demagnetization Fault Detection and Location in PMSM Based on Correlation Coefficient of Branch Current Signals. *Energies*, **2022**, 15, 2952	3.1	4
57	A Permanent Magnet Linear Motor With Complementary Flux and Its Optimization. *IEEE Transactions on Magnetics*, **2019**, 55, 1-5	2	3
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41	A novel stator and rotor dual PM flux modulated machine. *Chinese Journal of Electrical Engineering*, **2017**, 3, 10-15	4	2
40	Electromagnetic Performance Analysis of Novel HTS Doubly Fed Flux-Modulated Machines. *IEEE Transactions on Applied Superconductivity*, **2015**, 25, 1-4	1.8	2
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35	A Hybrid Two-Stage Control Solution for Six-Phase PMSM Motor with Improved Performance. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2022**, 1-1	5.6	2
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23	Multilevel Optimization of a Novel Dual-PM Dual-Electric Port Generator for Hybrid AC/DC System. *IEEE Transactions on Magnetics*, **2021**, 57, 1-5	2	1
22	Novel Hybrid-excited Permanent Magnet Machine Based on the Flux Modulation Effect **2019**,		1
21	Design Optimization of a Pole-Changing Biased Flux Machine Based on Sensitivity Analysis **2019**,		1
20	Flux-Modulated Permanent Magnet Machines: Challenges and Opportunities. *World Electric Vehicle Journal*, **2021**, 12, 13	2.5	1
19	Design and Analysis of a Novel Dual-Airgap Dual Permanent Magnet Vernier Machine. *IEEE Access*, **2021**, 1-1	3.5	1
18	Slot-PM-Assisted Hybrid Reluctance Generator with Self-Excited DC Source for Stand-Alone Wind Power Generation. *IEEE Transactions on Magnetics*, **2021**, 1-1	2	1
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15	Imbalanced Force in Permanent Magnet Brushless Motors With Magnetic and/or Electric Asymmetries. *IEEE Transactions on Magnetics*, **2014**, 50, 1-4	2	0
14	A new parameter identification method of a dual-rotor flux-modulation machine based on an adaptive differential evolution algorithm. *IET Renewable Power Generation*, **2021**, 15, 1888-1897	2.9	0
13	A Novel Winding Switching Control Strategy of a Consequent-pole Ferrite-PM Hybrid-excited Machine for Electric Vehicle Application. *IEEE Transactions on Magnetics*, **2021**, 1-1	2	0
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11	Reconstructing Saliency Effect in 12/10 DC Vernier Reluctance Machine for Position-Sensorless Drive Aerospace Starter Generator Application. *IEEE Transactions on Energy Conversion*, **2022**, 1-1	5.4	0
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9	Design and Analysis of a Linear Memory Machine for Ocean Wave Power Generation. *Energies*, **2020**, 13, 5216	3.1	

List of Publications

8	Design and Analysis of a Ferrite-PM-Assisted Hybrid Reluctance Machine for Electric Vehicle Propulsion	
7	A Novel Slot-PM-assisted Consequent-pole-PM Machine with Hybrid Magnets of Ferrite PMs and Rare earth PMs. *IEEE Transactions on Magnetics*, **2022**, 1-1	2
6	A Novel Slot-PM-assisted Hybrid Magnet Memory Machine. *IEEE Transactions on Magnetics*, **2022**, 1-1	2
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