Chunhua Liu

List of Publications by Citations

189 papers	4,783 citations	32 h-index	62 g-index
213 ext. papers	6,383 ext. citations	4.1 avg, IF	6.5 L-index

#	Paper	IF	Citations
189	Overview of Permanent-Magnet Brushless Drives for Electric and Hybrid Electric Vehicles. *IEEE Transactions on Industrial Electronics*, **2008**, 55, 2246-2257	8.9	821
188	Opportunities and Challenges of Vehicle-to-Home, Vehicle-to-Vehicle, and Vehicle-to-Grid Technologies. *Proceedings of the IEEE*, **2013**, 101, 2409-2427	14.3	388
187	Design of a Magnetic-Geared Outer-Rotor Permanent-Magnet Brushless Motor for Electric Vehicles. *IEEE Transactions on Magnetics*, **2007**, 43, 2504-2506	2	227
186	A New Efficient Permanent-Magnet Vernier Machine for Wind Power Generation. *IEEE Transactions on Magnetics*, **2010**, 46, 1475-1478	2	159
185	A Permanent-Magnet Hybrid Brushless Integrated Starter–Generator for Hybrid Electric Vehicles. *IEEE Transactions on Industrial Electronics*, **2010**, 57, 4055-4064	8.9	117
184	An Efficient Wind–Photovoltaic Hybrid Generation System Using Doubly Excited Permanent-Magnet Brushless Machine. *IEEE Transactions on Industrial Electronics*, **2010**, 57, 831-839	8.9	116
183	Integrated Energy Management of Plug-in Electric Vehicles in Power Grid With Renewables. *IEEE Transactions on Vehicular Technology*, **2014**, 63, 3019-3027	6.8	112
182	Energy Encryption for Wireless Power Transfer. *IEEE Transactions on Power Electronics*, **2015**, 30, 5237-5246	7.46	81
181	A Simplified Model Predictive Control for a Dual Three-Phase PMSM With Reduced Harmonic Currents. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 9079-9089	8.9	73
180	An Overview of Resonant Circuits for Wireless Power Transfer. *Energies*, **2017**, 10, 894	3.1	71
179	A Transient Cosimulation Approach to Performance Analysis of Hybrid Excited Doubly Salient Machine Considering Indirect Field-Circuit Coupling. *IEEE Transactions on Magnetics*, **2007**, 43, 2558-2560	2	71
178	Emerging Electric Machines and Drives—An Overview. *IEEE Transactions on Energy Conversion*, **2018**, 33, 2270-2280	5.4	69
177	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
176	Design of a New Outer-Rotor Permanent Magnet Hybrid Machine for Wind Power Generation. *IEEE Transactions on Magnetics*, **2008**, 44, 1494-1497	2	65
175	Elimination of Harmonic Currents Using a Reference Voltage Vector Based-Model Predictive Control for a Six-Phase PMSM Motor. *IEEE Transactions on Power Electronics*, **2019**, 34, 6960-6972	7.2	62
174	An Effective Sandwiched Wireless Power Transfer System for Charging Implantable Cardiac Pacemaker. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 4108-4117	8.9	60
173	Comparison of Stator-Permanent-Magnet Brushless Machines. *IEEE Transactions on Magnetics*, **2008**, 44, 4405-4408	2	60

172	A Novel Flux-Controllable Vernier Permanent-Magnet Machine. *IEEE Transactions on Magnetics*, **2011**, 47, 4238-4241	2	55
171	Novel Design of Double-Stator Single-Rotor Magnetic-Geared Machines. *IEEE Transactions on Magnetics*, **2012**, 48, 4180-4183	2	52
170	Overview of wireless power transfer for electric vehicle charging **2013**,		42
169	Time-Division Multiplexing Wireless Power Transfer for Separately Excited DC Motor Drives. *IEEE Transactions on Magnetics*, **2017**, 53, 1-5	2	41
168	Multi-Vector-Based Model Predictive Torque Control for a Six-Phase PMSM Motor With Fixed Switching Frequency. *IEEE Transactions on Energy Conversion*, **2019**, 34, 1369-1379	5.4	41
167	Comparison of Fault-Tolerant Operations for Permanent-Magnet Hybrid Brushless Motor Drive. *IEEE Transactions on Magnetics*, **2010**, 46, 1378-1381	2	41
166	Improvement of Electromagnetic Compatibility of Motor Drives Using Chaotic PWM. *IEEE Transactions on Magnetics*, **2007**, 43, 2612-2614	2	41
165	Model Predictive Control for a Six-Phase PMSM Motor With a Reduced-Dimension Cost Function. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 969-979	8.9	41
164	A Critical Review of Advanced Electric Machines and Control Strategies for Electric Vehicles. *Proceedings of the IEEE*, **2021**, 109, 1004-1028	14.3	40
163	Analysis of Tooth-Tip Flux Leakage in Surface-Mounted Permanent Magnet Linear Vernier Machines. *IEEE Transactions on Magnetics*, **2013**, 49, 3949-3952	2	38
162	Cost-Effectiveness Comparison of Coupler Designs of Wireless Power Transfer for Electric Vehicle Dynamic Charging. *Energies*, **2016**, 9, 906	3.1	38
161	Virtual-Vector-Based Robust Predictive Current Control for Dual Three-Phase PMSM. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 2048-2058	8.9	38
160	An efficient wireless power transfer system with security considerations for electric vehicle applications. *Journal of Applied Physics*, **2014**, 115, 17A328	2.5	37
159	Design and Analysis of Wireless Switched Reluctance Motor Drives. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 245-254	8.9	37
158	Design and Analysis of a HTS Brushless Doubly-Fed Doubly-Salient Machine. *IEEE Transactions on Applied Superconductivity*, **2011**, 21, 1119-1122	1.8	36
157	Design and Analysis of a Cost-Effective Magnetless Multiphase Flux-Reversal DC-Field Machine for Wind Power Generation. *IEEE Transactions on Energy Conversion*, **2015**, 30, 1565-1573	5.4	32
156	Velocity Measurement Technique for Permanent Magnet Synchronous Motors Through External Stray Magnetic Field Sensing. *IEEE Sensors Journal*, **2018**, 18, 4013-4021	4	32
155	Cost-Effectiveness Comparison of Coaxial Magnetic Gears With Different Magnet Materials. *IEEE Transactions on Magnetics*, **2014**, 50, 821-824	2	31

154	Quantitative Comparison and Analysis of Magnetless Machines With Reluctance Topologies. *IEEE Transactions on Magnetics*, **2013**, 49, 3969-3972	2	30
153	Design and Implementation of a Multi-Purpose TMR Sensor Matrix for Wireless Electric Vehicle Charging. *IEEE Sensors Journal*, **2019**, 19, 1683-1692	4	30
152	Pre- and Post-Fault Tolerant Operation of a Six-Phase PMSM Motor Using FCS-MPC Without Controller Reconfiguration. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 254-263	6.8	28
151	Overview of coil designs for wireless charging of electric vehicle **2017**,		28
150	A Magnetless Axial-Flux Machine for Range-Extended Electric Vehicles. *Energies*, **2014**, 7, 1483-1499	3.1	26
149	Overview of Wireless Charging Technologies for Electric Vehicles. *Journal of Asian Electric Vehicles*, **2014**, 12, 1679-1685	0.3	24
148	Design and Analysis of an Electronic-Geared Magnetless Machine for Electric Vehicles. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 6705-6714	8.9	24
147	Modular inductive power transmission system for high misalignment electric vehicle application. *Journal of Applied Physics*, **2015**, 117, 17B528	2.5	23
146	Wireless Power Transfer for Implanted Medical Application: A Review. *Energies*, **2020**, 13, 2837	3.1	23
145	Overview of advanced control strategies for electric machines. *Chinese Journal of Electrical Engineering*, **2017**, 3, 53-61	4	23
144	Quantitative Analysis of Mutual Inductance for Optimal Wireless Power Transfer via Magnetic Resonant Coupling. *IEEE Transactions on Magnetics*, **2014**, 50, 1-4	2	23
143	An Integrated On-Board EV Charger with Safe Charging Operation for Three-Phase IPM Motor. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 7551-7560	8.9	23
142	Inter-Turn Short-Circuit Fault Detection Approach for Permanent Magnet Synchronous Machines Through Stray Magnetic Field Sensing. *IEEE Sensors Journal*, **2019**, 19, 7884-7895	4	21
141	A New Magnetless Flux-Reversal HTS Machine for Direct-Drive Application. *IEEE Transactions on Applied Superconductivity*, **2015**, 25, 1-5	1.8	21
140	A High-Torque Magnetless Axial-Flux Doubly Salient Machine for In-Wheel Direct Drive Applications. *IEEE Transactions on Magnetics*, **2014**, 50, 1-5	2	21
139	A new DC micro-grid system using renewable energy and electric vehicles for smart energy delivery **2010**,		21
138	An LCC-Compensated Multiple-Frequency Wireless Motor System. *IEEE Transactions on Industrial Informatics*, **2019**, 15, 6023-6034	11.9	20
137	Electromagnetic Design of a New Electrically Controlled Magnetic Variable-Speed Gearing Machine. *Energies*, **2014**, 7, 1539-1554	3.1	20

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135	Investigation of covalently grafted polyacrylate chains onto graphene oxide for epoxy composites with reinforced mechanical performance. *Journal of Applied Polymer Science*, **2019**, 136, 47842	2.9	19
134	Investigation on Magnetic Force of a Flux-Modulated Double-Rotor Permanent Magnet Synchronous Machine for Hybrid Electric Vehicle. *IEEE Transactions on Transportation Electrification*, **2019**, 5, 1383-1394	7.6	19
133	Efficiency Optimization of a Permanent-Magnet Hybrid Brushless Machine Using DC Field Current Control. *IEEE Transactions on Magnetics*, **2009**, 45, 4652-4655	2	19
132	Overview of magnetless brushless machines. *IET Electric Power Applications*, **2018**, 12, 1117-1125	1.8	19
131	A Consequent-Pole PM Magnetic-Geared Double-Rotor Machine With Flux-Weakening Ability for Hybrid Electric Vehicle Application. *IEEE Transactions on Magnetics*, **2019**, 55, 1-7	2	18
130	Field Prediction and Validation of a Slotless Segmented-Halbach Permanent Magnet Synchronous Machine for More Electric Aircraft. *IEEE Transactions on Transportation Electrification*, **2020**, 6, 1577-1591	7.6	17
129	Wireless DC Motor Drives with Selectability and Controllability. *Energies*, **2017**, 10, 49	3.1	17
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122	Multi-Objective Optimization of a Double-Stator Hybrid-Excited Flux-Switching Permanent-Magnet Machine. *IEEE Transactions on Energy Conversion*, **2020**, 35, 312-323	5.4	16
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120	A positioning-tolerant wireless charging system for roadway-powered electric vehicles. *Journal of Applied Physics*, **2015**, 117, 17B520	2.5	15
119	Separate Power Allocation and Control Method Based on Multiple Power Channels for Wireless Power Transfer. *IEEE Transactions on Power Electronics*, **2020**, 35, 9046-9056	7.2	15

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117	Optimal Control Framework and Scheme for Integrating Plug-in Hybrid Electric Vehicles into Grid. *Journal of Asian Electric Vehicles*, **2011**, 9, 1473-1481	0.3	15
116	Direct Modulation Pattern Control for Dual Three-Phase PMSM Drive System. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	15
115	Magnetic Vibration Analysis of a New DC-Excited Multitoothed Switched Reluctance Machine. *IEEE Transactions on Magnetics*, **2014**, 50, 1-4	2	14
114	Design Principles of Permanent Magnet Dual-Memory Machines. *IEEE Transactions on Magnetics*, **2012**, 48, 3234-3237	2	14
113	Quantitative Comparison of Novel Dual-PM Linear Motors for Ropeless Elevator System. *IEEE Transactions on Magnetics*, **2018**, 54, 1-6	2	14
112	Investigation of energy harvesting for magnetic sensor arrays on Mars by wireless power transmission. *Journal of Applied Physics*, **2014**, 115, 17E702	2.5	13
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109	Direct Harmonic Current Control Scheme for Dual Three-Phase PMSM Drive System. *IEEE Transactions on Power Electronics*, **2021**, 36, 11647-11657	7.2	13
108	A New Electric Magnetic-Geared Machine for Electric Unmanned Aerial Vehicles. *IEEE Transactions on Magnetics*, **2017**, 53, 1-6	2	12
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106	Design and analysis of a dual-mode flux-switching doubly salient DC-field magnetless machine for wind power harvesting. *IET Renewable Power Generation*, **2015**, 9, 908-915	2.9	12
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99	Design and Analysis of a New Multitoothed Magnetless Doubly Salient Machine. *IEEE Transactions on Applied Superconductivity*, **2014**, 24, 1-4	1.8	11
98	Development of Non-rare-earth Magnetic Gears for Electric Vehicles. *Journal of Asian Electric Vehicles*, **2012**, 10, 1607-1613	0.3	11
97	An Effective Charging-Torque Elimination Method for Six-Phase Integrated On-Board EV Chargers. *IEEE Transactions on Power Electronics*, **2020**, 35, 2776-2786	7.2	11
96	Suppression of Dual Harmonic Components for Five-Phase Series-Winding PMSM. *IEEE Transactions on Transportation Electrification*, **2021**, 1-1	7.6	11
95	Analytical Modeling and Comparison of Two Consequent-Pole Magnetic-Geared Machines for Hybrid Electric Vehicles. *Energies*, **2019**, 12, 1888	3.1	10
94	TMR-Sensor-Array-Based Misalignment-Tolerant Wireless Charging Technique for Roadway Electric Vehicles. *IEEE Transactions on Magnetics*, **2019**, 55, 1-7	2	10
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92	Design of a new outer-rotor flux-controllable vernier PM in-wheel motor drive for electric vehicle **2011**,		10
91	Design and Analysis of Magnet Proportioning for Dual-Memory Machines. *IEEE Transactions on Applied Superconductivity*, **2012**, 22, 4905404-4905404	1.8	10
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89	Design and Analysis of a New Hybrid Wireless Power Transfer System With a Space-Saving Coupler Structure. *IEEE Transactions on Power Electronics*, **2021**, 36, 5069-5081	7.2	10
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87	Candidate Modulation Patterns Solution for Five-Phase PMSM Drive System. *IEEE Transactions on Transportation Electrification*, **2021**, 1-1	7.6	10
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81	Model Predictive Two-Target Current Control for OW-PMSM. *IEEE Transactions on Power Electronics* , **2021**, 36, 3224-3235	7.2	9
80	Active Harmonic Suppression of Low-Reactance Multi-phase Slotless Permanent Magnet Synchronous Machines. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 1-1	5.6	9
79	Quantitative Comparison of Distinct Dual-Stator Permanent Magnet Vernier Machines for Direct-Drive Applications. *IEEE Transactions on Magnetics*, **2019**, 55, 1-6	2	8
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68	Hour-Ahead Energy Trading Management with Demand Forecasting in Microgrid Considering Power Flow Constraints. *Energies*, **2019**, 12, 3494	3.1	7
67	Permeance and Inductance Modeling of a Double-Stator Hybrid-Excited Flux-Switching Permanent-Magnet Machine. *IEEE Transactions on Transportation Electrification*, **2020**, 6, 1134-1145	7.6	6
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65	An Efficient Topology for Wireless Power Transfer over a Wide Range of Loading Conditions. *Energies*, **2018**, 11, 141	3.1	6

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61	Deadbeat Predictive Current Control for Series-Winding PMSM Drive with Half-Bridge Power Module-Based Inverter. *Energies*, **2021**, 14, 4620	3.1	6
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59	ELECTROMAGNETIC DESIGN AND ANALYSIS OF MAGNETLESS DOUBLE-ROTOR DUAL-MODE MACHINES. *Progress in Electromagnetics Research*, **2013**, 142, 333-351	3.8	5
58	A Fast Optimization Scheme of Coaxial Magnetic Gears Based on Exact Analytical Model Considering Magnetic Saturation. *IEEE Transactions on Industry Applications*, **2021**, 57, 437-447	4.3	5
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44	Design of an Effective Double-Rotor Machine With Robust Mechanical Structure. *IEEE Transactions on Magnetics*, **2020**, 56, 1-7	2	3
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42	Current Harmonic Suppression for Permanent-Magnet Synchronous Motor Based on Chebyshev Filter and PI Controller. *IEEE Transactions on Magnetics*, **2021**, 57, 1-6	2	3
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31	Development of Dual-memory Motor Drives for Electric Vehicles. *Journal of International Council on Electrical Engineering*, **2013**, 3, 192-198	0.1	2
30	A new johnson-noise-based thermometry using giant magnetoresistive sensor **2016**,		2
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28	Exact Analytical Solution for Two Types of Magnetic Gear and Their Control **2019**,		2
27	Direct Load Voltage Control for Electrolytic Capacitorless Wireless Power Transfer System Without DC/DC Converter. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 8039-8048	8.9	2
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24	Improved Deadbeat-Direct Torque and Flux Control for PMSM with Less Computation and Enhanced Robustness. *IEEE Transactions on Industrial Electronics*, **2022**, 1-1	8.9	2
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19	New Approach for Pole-Changing With Dual-Memory Machine. *IEEE Transactions on Applied Superconductivity*, **2014**, 24, 1-4	1.8	1
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