

Chunhua Liu

List of Publications by Year in Descending Order

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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.

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 Axial-Flux Machines and Modeling Methods. <i>IEEE Transactions on Transportation Electrification</i> , 2022 , 1-1	7.6	1
188	Overview of Propulsion Systems for Unmanned Aerial Vehicles. <i>Energies</i> , 2022 , 15, 455	3.1	1
187	Design and Control of a Decoupled Multi-channel Wireless Power Transfer System Based on Multilevel Inverters. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	4
186	Improved Flux Weakening Control Strategy for Five-phase PMSM Considering Harmonic Voltage Vectors. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	3
185	Online Detection and Location of Eccentricity Fault in PMSG with External Magnetic Sensing. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	1
184	Decoupled Modulation Scheme for Harmonic Current Suppression in Five-Phase PMSM. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	3
183	Air-gap Permeance and Reluctance Network Models for Analyzing Vibrational Exciting Force of In-wheel PMSM. <i>IEEE Transactions on Vehicular Technology</i> , 2022 , 1-1	6.8	2
182	Improved Multi-Stage Decoupling Space Vector Modulation for Asymmetrical Multi-Phase PMSM with Series Winding Connection. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	3
181	Improved Deadbeat-Direct Torque and Flux Control for PMSM with Less Computation and Enhanced Robustness. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	2
180	A New Cascaded Adaptive Deadbeat Control Method for PMSM Drive. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	1
179	Harmonic Current Suppression for Dual Three-Phase PMSM Based on Deadbeat Control and Disturbance Observer. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	1
178	An Improved Dual Iterative Transient Thermal Network Model for PMSM with Natural Air Cooling. <i>IEEE Transactions on Energy Conversion</i> , 2022 , 1-1	5.4	1
177	Multi-Virtual-Vector Model Predictive Current Control for Dual Three-Phase PMSM. <i>Energies</i> , 2021 , 14, 7292	3.1	
176	Design and Optimization of a Magnetic-Geared Direct-Drive Machine with V-shaped Permanent Magnets for Ship Propulsion. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 1-1	7.6	0
175	A Novel Quasi-3D Analytical Model for Axial Flux Motors Considering Magnetic Saturation. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	1
174	Nonlinear Force and Vibration Analysis of an Interior Permanent Magnet Synchronous Generator With Eccentricity Detection. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-11	5.5	0
173	A Critical Review of Advanced Electric Machines and Control Strategies for Electric Vehicles. <i>Proceedings of the IEEE</i> , 2021 , 109, 1004-1028	14.3	40

172	Design and Analysis of a Novel Axial-Radial Flux Permanent Magnet Machine with Halbach-Array Permanent Magnets. <i>Energies</i> , 2021 , 14, 3639	3.1	6
171	Virtual-Vector-Based Robust Predictive Current Control for Dual Three-Phase PMSM. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 2048-2058	8.9	38
170	Design and Analysis of a New Hybrid Wireless Power Transfer System With a Space-Saving Coupler Structure. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 5069-5081	7.2	10
169	Direct Load Voltage Control for Electrolytic Capacitorless Wireless Power Transfer System Without DC/DC Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 8039-8048	8.9	2
168	Current Harmonic Suppression for Permanent-Magnet Synchronous Motor Based on Chebyshev Filter and PI Controller. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-6	2	3
167	Model Predictive Two-Target Current Control for OW-PMSM. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 3224-3235	7.2	9
166	A Portable Power Quality Monitoring Approach in Microgrid With Electromagnetic Sensing and Computational Intelligence. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-6	2	0
165	Direct Modulation Pattern Control for Dual Three-Phase PMSM Drive System. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	15
164	Model Predictive Torque Control for Dual Three-Phase PMSMs with Simplified Deadbeat Solution and Discrete Space-Vector Modulation. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	10
163	Design and Control of A New Compound Double-Rotor Electric Machine for Hybrid Propulsion System. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	1
162	A Fast Optimization Scheme of Coaxial Magnetic Gears Based on Exact Analytical Model Considering Magnetic Saturation. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 437-447	4.3	5
161	Suppression of Dual Harmonic Components for Five-Phase Series-Winding PMSM. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 1-1	7.6	11
160	Candidate Modulation Patterns Solution for Five-Phase PMSM Drive System. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 1-1	7.6	10
159	Active Harmonic Suppression of Low-Reactance Multi-phase Slotless Permanent Magnet Synchronous Machines. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	9
158	Deadbeat Predictive Current Control for Series-Winding PMSM Drive with Half-Bridge Power Module-Based Inverter. <i>Energies</i> , 2021 , 14, 4620	3.1	6
157	Overview of energy harvesting and emission reduction technologies in hybrid electric vehicles. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 147, 111188	16.2	13
156	Direct Harmonic Current Control Scheme for Dual Three-Phase PMSM Drive System. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 11647-11657	7.2	13
155	Exact Multiphysics Modeling and Experimental Validation of Spoke-Type Permanent Magnet Brushless Machines. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 11658-11671	7.2	3

154	Comparative Study of Double-Stator Interior-PM Vernier Machines Based on Electromagnetic-Structural Coupling Analysis. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 10510-10520 ^{8.9}	8.9	1
153	Exact Modeling and Multiobjective Optimization of Vernier Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 11740-11751	8.9	4
152	Online Detecting Magnet Defect Fault in PMSG With Magnetic Sensing. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 7, 2775-2786	7.6	3
151	Novel Output Regulation Method for Three-phase Three-level Wireless EV Charging System. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1	2	2
150	Analysis and Design Considerations of a Dual-Rotor Multiple-Winding Machine. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	0
149	Analytical Modeling of a Double-Rotor Multiwinding Machine for Hybrid Aircraft Propulsion. <i>IEEE Transactions on Transportation Electrification</i> , 2020 , 6, 1537-1550	7.6	7
148	Wireless Power Transfer for Implanted Medical Application: A Review. <i>Energies</i> , 2020 , 13, 2837	3.1	23
147	Permeance and Inductance Modeling of a Double-Stator Hybrid-Excited Flux-Switching Permanent-Magnet Machine. <i>IEEE Transactions on Transportation Electrification</i> , 2020 , 6, 1134-1145	7.6	6
146	A Study of Rotational Movement and Charging Torque of Reconfigured On-Board Charger. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 10720-10728	7.2	2
145	Concurrent Wireless Power Transfer to Multiple Receivers With Additional Resonant Frequencies and Reduced Power Switches. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 9292-9301	8.9	11
144	Separate Power Allocation and Control Method Based on Multiple Power Channels for Wireless Power Transfer. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 9046-9056	7.2	15
143	A Dual-Modulator Magnetic-Geared Machine for Tidal-Power Generation. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-7	2	4
142	Analytical model for magnetic-geared double-rotor machines and its d-q-axis determination. <i>IET Electric Power Applications</i> , 2020 , 14, 175-183	1.8	4
141	DC-Biased Operation of a Double-Stator Hybrid Flux Switching Permanent-Magnet Machine. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-6	2	8
140	Modular Design of an Efficient Permanent Magnet Vernier Machine. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-6	2	7
139	Field Prediction and Validation of a Slotless Segmented-Halbach Permanent Magnet Synchronous Machine for More Electric Aircraft. <i>IEEE Transactions on Transportation Electrification</i> , 2020 , 6, 1577-1591 ^{7.6}	7.6	17
138	Design of a Grid-Connected Multiphase Servo System Without DC-Link Capacitor. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-6	2	
137	Design of an Effective Double-Rotor Machine With Robust Mechanical Structure. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-7	2	3

136	Model Predictive Control for a Six-Phase PMSM Motor With a Reduced-Dimension Cost Function. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 969-979	8.9	41
135	An Effective Charging-Torque Elimination Method for Six-Phase Integrated On-Board EV Chargers. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 2776-2786	7.2	11
134	Multi-Objective Optimization of a Double-Stator Hybrid-Excited Flux-Switching Permanent-Magnet Machine. <i>IEEE Transactions on Energy Conversion</i> , 2020 , 35, 312-323	5.4	16
133	Pre- and Post-Fault Tolerant Operation of a Six-Phase PMSM Motor Using FCS-MPC Without Controller Reconfiguration. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 254-263	6.8	28
132	Design and Multi-Mode Operation of Double-Stator Toroidal-Winding PM Vernier Machine for Wind-Photovoltaic Hybrid Generation System. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-7	2	9
131	Analytical Modeling and Comparison of Two Consequent-Pole Magnetic-Geared Machines for Hybrid Electric Vehicles. <i>Energies</i> , 2019 , 12, 1888	3.1	10
130	Quantitative Comparison of Distinct Dual-Stator Permanent Magnet Vernier Machines for Direct-Drive Applications. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-6	2	8
129	Inter-Turn Short-Circuit Fault Detection Approach for Permanent Magnet Synchronous Machines Through Stray Magnetic Field Sensing. <i>IEEE Sensors Journal</i> , 2019 , 19, 7884-7895	4	21
128	An LCC-Compensated Multiple-Frequency Wireless Motor System. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 6023-6034	11.9	20
127	TMR-Sensor-Array-Based Misalignment-Tolerant Wireless Charging Technique for Roadway Electric Vehicles. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-7	2	10
126	Investigation of covalently grafted polyacrylate chains onto graphene oxide for epoxy composites with reinforced mechanical performance. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47842	2.9	19
125	A Consequent-Pole PM Magnetic-Geared Double-Rotor Machine With Flux-Weakening Ability for Hybrid Electric Vehicle Application. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-7	2	18
124	Design and Optimization Procedure of a Mechanical-Offset Complementary-Stator Flux-Reversal Permanent-Magnet Machine. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-7	2	7
123	Model Predictive Control for a Six-Phase PMSM With High Robustness Against Weighting Factor Variation. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 2781-2791	4.3	8
122	An Effective Sandwiched Wireless Power Transfer System for Charging Implantable Cardiac Pacemaker. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 4108-4117	8.9	60
121	Magnetic-Field-Sensing-Based Approach for Current Reconstruction, Sag Detection, and Inclination Detection for Overhead Transmission System. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-7	2	9
120	Multi-Vector-Based Model Predictive Torque Control for a Six-Phase PMSM Motor With Fixed Switching Frequency. <i>IEEE Transactions on Energy Conversion</i> , 2019 , 34, 1369-1379	5.4	41
119	Enhancement of anticorrosion property and hydrophobicity of modified epoxy coatings with fluorinated polyacrylate. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 579, 123659	5.1	11

118	Investigation on Magnetic Force of a Flux-Modulated Double-Rotor Permanent Magnet Synchronous Machine for Hybrid Electric Vehicle. <i>IEEE Transactions on Transportation Electrification</i> , 2019 , 5, 1383-1394	7.6	19
117	Power Allocation for Dynamic Dual-Pickup Wireless Charging System of Electric Vehicle. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-6	2	10
116	Induced Voltage Optimization of a Direct-Drive Multi-Phase Permanent Magnet Vernier Generator for Tidal Energy Conversion 2019 ,		3
115	Hour-Ahead Energy Trading Management with Demand Forecasting in Microgrid Considering Power Flow Constraints. <i>Energies</i> , 2019 , 12, 3494	3.1	7
114	Exact Analytical Solution for Two Types of Magnetic Gear and Their Control 2019 ,		2
113	An Integrated On-Board EV Charger with Safe Charging Operation for Three-Phase IPM Motor. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 7551-7560	8.9	23
112	Elimination of Harmonic Currents Using a Reference Voltage Vector Based-Model Predictive Control for a Six-Phase PMSM Motor. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 6960-6972	7.2	62
111	Design and Implementation of a Multi-Purpose TMR Sensor Matrix for Wireless Electric Vehicle Charging. <i>IEEE Sensors Journal</i> , 2019 , 19, 1683-1692	4	30
110	Design and Analysis of Wireless Ballastless Fluorescent Lighting. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 4065-4074	8.9	20
109	Design and Analysis of Wireless Switched Reluctance Motor Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 245-254	8.9	37
108	Experimental Investigation of a Johnson Noise Thermometry Using GMR Sensor for Electric Vehicle Applications. <i>IEEE Sensors Journal</i> , 2018 , 18, 3098-3107	4	6
107	Velocity Measurement Technique for Permanent Magnet Synchronous Motors Through External Stray Magnetic Field Sensing. <i>IEEE Sensors Journal</i> , 2018 , 18, 4013-4021	4	32
106	A Simplified Model Predictive Control for a Dual Three-Phase PMSM With Reduced Harmonic Currents. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 9079-9089	8.9	73
105	Marker-Free Coil-Misalignment Detection Approach Using TMR Sensor Array for Dynamic Wireless Charging of Electric Vehicles. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	10
104	Design of a Double-Stator Magnetless Vernier Machine for Direct-Drive Robotics. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	11
103	An Efficient Topology for Wireless Power Transfer over a Wide Range of Loading Conditions. <i>Energies</i> , 2018 , 11, 141	3.1	6
102	Development of a Singly Fed Mechanical-Offset Machine for Electric Vehicles. <i>IEEE Transactions on Energy Conversion</i> , 2018 , 33, 516-525	5.4	3
101	Flux Weakening Control for Dual Three-Phase PMSM 2018 ,		3

100	Quantitative Comparisons of Six-Phase Outer-Rotor Permanent-Magnet Brushless Machines for Electric Vehicles. <i>Energies</i> , 2018 , 11, 2141	3.1	6
99	Design of an Effective Double-Rotor Machine with Robust Mechanical Structure 2018 ,		1
98	Design of an Outer-Rotor Nine-Phase Dual-PM Vernier Machine 2018 ,		1
97	Analysis and Control of Optimal Power Distribution for Multi-Objective Wireless Charging Systems. <i>Energies</i> , 2018 , 11, 1726	3.1	3
96	Overview of magnetless brushless machines. <i>IET Electric Power Applications</i> , 2018 , 12, 1117-1125	1.8	19
95	Move-and-Charge System for Automatic Guided Vehicles. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	16
94	Emerging Electric Machines and Drives [An Overview]. <i>IEEE Transactions on Energy Conversion</i> , 2018 , 33, 2270-2280	5.4	69
93	Quantitative Comparison of Novel Dual-PM Linear Motors for Ropeless Elevator System. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-6	2	14
92	Time-Division Multiplexing Wireless Power Transfer for Separately Excited DC Motor Drives. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-5	2	41
91	Doubly Salient Dual-PM Linear Machines for Regenerative Shock Absorbers. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-5	2	7
90	A New Electric Magnetic-Geared Machine for Electric Unmanned Aerial Vehicles. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-6	2	12
89	Predictive current control of a new three-phase voltage source inverter with phase shift compensation. <i>IET Electric Power Applications</i> , 2017 , 11, 740-748	1.8	16
88	Wireless DC Motor Drives with Selectability and Controllability. <i>Energies</i> , 2017 , 10, 49	3.1	17
87	Overview of coil designs for wireless charging of electric vehicle 2017 ,		28
86	Design considerations and performance improvement of a dual-stator PM vernier motor with axial-flux loop 2017 ,		3
85	Overview of advanced control strategies for electric machines. <i>Chinese Journal of Electrical Engineering</i> , 2017 , 3, 53-61	4	23
84	Design of a double-stator hybrid flux switching permanent magnet machine for direct-drive robotics 2017 ,		4
83	Model predictive torque control of an open-end winding PMSM with reduced computation time 2017 ,		9

82	Design of an effective wireless air charging system for electric unmanned aerial vehicles 2017 ,		17
81	Design and Evaluation of an Efficient Three-Phase Four-Leg Voltage Source Inverter with Reduced IGBTs. <i>Energies</i> , 2017 , 10, 530	3.1	2
80	An Overview of Resonant Circuits for Wireless Power Transfer. <i>Energies</i> , 2017 , 10, 894	3.1	71
79	Design of a new non-rare-earth magnetic variable gear for hybrid vehicular propulsion system. <i>IET Electrical Systems in Transportation</i> , 2016 , 6, 153-162	2.1	11
78	Pole-Changing Flux-Weakening DC-Excited Dual-Memory Machines for Electric Vehicles. <i>IEEE Transactions on Energy Conversion</i> , 2016 , 31, 27-36	5.4	15
77	Cost-Effectiveness Comparison of Coupler Designs of Wireless Power Transfer for Electric Vehicle Dynamic Charging. <i>Energies</i> , 2016 , 9, 906	3.1	38
76	Design and Analysis of an Electronic-Geared Magnetless Machine for Electric Vehicles. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 6705-6714	8.9	24
75	A new johnson-noise-based thermometry using giant magnetoresistive sensor 2016 ,		2
74	Design and Comparison of Direct-Drive Stator-PM Machines for Electric Power Generation 2016 ,		2
73	A New Magnetless Flux-Reversal HTS Machine for Direct-Drive Application. <i>IEEE Transactions on Applied Superconductivity</i> , 2015 , 25, 1-5	1.8	21
72	Design and Analysis of a Cost-Effective Magnetless Multiphase Flux-Reversal DC-Field Machine for Wind Power Generation. <i>IEEE Transactions on Energy Conversion</i> , 2015 , 30, 1565-1573	5.4	32
71	A positioning-tolerant wireless charging system for roadway-powered electric vehicles. <i>Journal of Applied Physics</i> , 2015 , 117, 17B520	2.5	15
70	Modular inductive power transmission system for high misalignment electric vehicle application. <i>Journal of Applied Physics</i> , 2015 , 117, 17B528	2.5	23
69	Multiple-receptor wireless power transfer for magnetic sensors charging on Mars via magnetic resonant coupling. <i>Journal of Applied Physics</i> , 2015 , 117, 17A743	2.5	11
68	Wireless power transfer and fault diagnosis of high-voltage power line via robotic bird. <i>Journal of Applied Physics</i> , 2015 , 117, 17D521	2.5	12
67	Fault Signature of a Flux-Switching DC-Field Generator. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	2
66	Energy-security-based contactless battery charging system for roadway-powered electric vehicles 2015 ,		4
65	Energy Encryption for Wireless Power Transfer. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 5237-5246	7.46	81

64	A new fault-tolerant flux-reversal doubly-salient magnetless motor drive with four-phase topology 2015 ,		1
63	DESIGN AND ANALYSIS OF A NEW AXIAL-FIELD MAGNETIC VARIABLE GEAR USING POLE-CHANGING PERMANENT MAGNETS. <i>Progress in Electromagnetics Research</i> , 2015 , 153, 23-32	3.8	8
62	A New Hybrid-Structure Machine With Multimode Fault-Tolerant Operation for Mars Rover. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	8
61	Design and analysis of a dual-mode flux-switching doubly salient DC-field magnetless machine for wind power harvesting. <i>IET Renewable Power Generation</i> , 2015 , 9, 908-915	2.9	12
60	Design and Analysis of a Flux-Controllable Linear Variable Reluctance Machine. <i>IEEE Transactions on Applied Superconductivity</i> , 2014 , 24, 1-4	1.8	3
59	Investigation of energy harvesting for magnetic sensor arrays on Mars by wireless power transmission. <i>Journal of Applied Physics</i> , 2014 , 115, 17E702	2.5	13
58	Design and Analysis of a New Magnetic-Geared Memory Machine. <i>IEEE Transactions on Applied Superconductivity</i> , 2014 , 24, 1-5	1.8	1
57	Design and Analysis of a New Magnetic Gear With Multiple Gear Ratios. <i>IEEE Transactions on Applied Superconductivity</i> , 2014 , 24, 1-4	1.8	4
56	Design and Analysis of a New Multitoothed Magnetless Doubly Salient Machine. <i>IEEE Transactions on Applied Superconductivity</i> , 2014 , 24, 1-4	1.8	11
55	An efficient wireless power transfer system with security considerations for electric vehicle applications. <i>Journal of Applied Physics</i> , 2014 , 115, 17A328	2.5	37
54	Integrated Energy Management of Plug-in Electric Vehicles in Power Grid With Renewables. <i>IEEE Transactions on Vehicular Technology</i> , 2014 , 63, 3019-3027	6.8	112
53	Cost-Effectiveness Comparison of Coaxial Magnetic Gears With Different Magnet Materials. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 821-824	2	31
52	Overview of Wireless Charging Technologies for Electric Vehicles. <i>Journal of Asian Electric Vehicles</i> , 2014 , 12, 1679-1685	0.3	24
51	Electromagnetic Design of a New Electrically Controlled Magnetic Variable-Speed Gearing Machine. <i>Energies</i> , 2014 , 7, 1539-1554	3.1	20
50	A Magnetless Axial-Flux Machine for Range-Extended Electric Vehicles. <i>Energies</i> , 2014 , 7, 1483-1499	3.1	26
49	Quantitative comparison of dynamic flux distribution of magnetic couplers for roadway electric vehicle wireless charging system. <i>Journal of Applied Physics</i> , 2014 , 115, 17A334	2.5	12
48	Magnetic Vibration Analysis of a New DC-Excited Multitoothed Switched Reluctance Machine. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	14
47	Design and Analysis of a Magnetless Flux-Switching DC-Excited Machine for Wind Power Generation. <i>Journal of International Council on Electrical Engineering</i> , 2014 , 4, 80-87	0.1	7

46	Mechanical Offset for Torque Ripple Reduction for Magnetless Double-Stator Doubly Salient Machine. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	16
45	A High-Torque Magnetless Axial-Flux Doubly Salient Machine for In-Wheel Direct Drive Applications. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-5	2	21
44	Quantitative Analysis of Mutual Inductance for Optimal Wireless Power Transfer via Magnetic Resonant Coupling. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	23
43	New Approach for Pole-Changing With Dual-Memory Machine. <i>IEEE Transactions on Applied Superconductivity</i> , 2014 , 24, 1-4	1.8	1
42	Opportunities and Challenges of Vehicle-to-Home, Vehicle-to-Vehicle, and Vehicle-to-Grid Technologies. <i>Proceedings of the IEEE</i> , 2013 , 101, 2409-2427	14.3	388
41	Analysis of Tooth-Tip Flux Leakage in Surface-Mounted Permanent Magnet Linear Vernier Machines. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3949-3952	2	38
40	Comparison of outer-rotor permanent magnet machines for in-wheel drives 2013 ,		6
39	Quantitative Comparison and Analysis of Magnetless Machines With Reluctance Topologies. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3969-3972	2	30
38	Design and analysis of a DC field multitooth switched reluctance machine by using soft-magnetic-composite material 2013 ,		1
37	Overview of wireless power transfer for electric vehicle charging 2013 ,		42
36	Stabilization of chaos in electric vehicle steering systems using induction motor 2013 ,		1
35	Development of Dual-memory Motor Drives for Electric Vehicles. <i>Journal of International Council on Electrical Engineering</i> , 2013 , 3, 192-198	0.1	2
34	ELECTROMAGNETIC DESIGN AND ANALYSIS OF MAGNETLESS DOUBLE-ROTOR DUAL-MODE MACHINES. <i>Progress in Electromagnetics Research</i> , 2013 , 142, 333-351	3.8	5
33	Fault Diagnosis of Power Components in Electric Vehicles. <i>Journal of Asian Electric Vehicles</i> , 2013 , 11, 1659-1666	0.3	9
32	Design Principles of Permanent Magnet Dual-Memory Machines. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 3234-3237	2	14
31	A dual-memory permanent magnet brushless machine for automotive integrated starter-generator application 2012 ,		3
30	Novel Design of Double-Stator Single-Rotor Magnetic-Geared Machines. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 4180-4183	2	52
29	Transient Stability Analysis of SMES for Smart Grid With Vehicle-to-Grid Operation. <i>IEEE Transactions on Applied Superconductivity</i> , 2012 , 22, 5701105-5701105	1.8	16

28	Quantitative Comparison of Double-Stator Permanent Magnet Vernier Machines With and Without HTS Bulks. <i>IEEE Transactions on Applied Superconductivity</i> , 2012 , 22, 5202405-5202405	1.8	13
27	SMES Control for Power Grid Integrating Renewable Generation and Electric Vehicles. <i>IEEE Transactions on Applied Superconductivity</i> , 2012 , 22, 5701804-5701804	1.8	9
26	Genetic Algorithm Based Cost-emission Optimization of Unit Commitment Integrating with Gridable Vehicles. <i>Journal of Asian Electric Vehicles</i> , 2012 , 10, 1567-1573	0.3	5
25	Development of Non-rare-earth Magnetic Gears for Electric Vehicles. <i>Journal of Asian Electric Vehicles</i> , 2012 , 10, 1607-1613	0.3	11
24	ELECTROMAGNETIC DESIGN AND ANALYSIS OF DOUBLE-ROTOR FLUX-MODULATED PERMANENT-MAGNET MACHINES. <i>Progress in Electromagnetics Research</i> , 2012 , 131, 81-97	3.8	16
23	Comparison of chaotic PWM algorithms for electric vehicle motor drives 2012 ,		4
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