

Christopher H T Lee

List of Publications by Citations

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124
papers

1,102
citations

19
h-index

26
g-index

145
ext. papers

1,615
ext. citations

4.7
avg, IF

5.39
L-index

#	Paper	IF	Citations
124	An Overview of Resonant Circuits for Wireless Power Transfer. <i>Energies</i> , 2017 , 10, 894	3.1	71
123	CHALLENGES AND OPPORTUNITIES OF ELECTRIC MACHINES FOR RENEWABLE ENERGY. <i>Progress in Electromagnetics Research B</i> , 2012 , 42, 45-74	0.7	54
122	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
121	Cost-Effectiveness Comparison of Coupler Designs of Wireless Power Transfer for Electric Vehicle Dynamic Charging. <i>Energies</i> , 2016 , 9, 906	3.1	38
120	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
119	Quantitative Comparison and Analysis of Magnetless Machines With Reluctance Topologies. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3969-3972	2	30
118	Multi-Frequency Multi-Power One-to-Many Wireless Power Transfer System. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-9	2	28
117	Comparative Analysis and Optimization of Dynamic Charging Coils for Roadway-Powered Electric Vehicles. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-6	2	28
116	A Magnetless Axial-Flux Machine for Range-Extended Electric Vehicles. <i>Energies</i> , 2014 , 7, 1483-1499	3.1	26
115	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
114	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
113	Parametric Sensitivity Analysis and Design Optimization of an Interior Permanent Magnet Synchronous Motor. <i>IEEE Access</i> , 2019 , 7, 159918-159929	3.5	21
112	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
111	A Partitioned-Stator Flux-Switching Permanent-Magnet Machine With Mechanical Flux Adjusters for Hybrid Electric Vehicles. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-7	2	20
110	STATE-OF-THE-ART ELECTROMAGNETICS RESEARCH IN ELECTRIC AND HYBRID VEHICLES (INVITED PAPER). <i>Progress in Electromagnetics Research</i> , 2017 , 159, 139-157	3.8	20
109	Full-Range Soft-Switching Pulse Frequency Modulated Wireless Power Transfer. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 6533-6547	7.2	20
108	Design and Analysis of Wireless Ballastless Fluorescent Lighting. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 4065-4074	8.9	20

107	Overview of Flux-Modulation Machines Based on Flux-Modulation Principle: Topology, Theory, and Development Prospects. <i>IEEE Transactions on Transportation Electrification</i> , 2020 , 6, 612-624	7.6	19
106	Overview of magnetless brushless machines. <i>IET Electric Power Applications</i> , 2018 , 12, 1117-1125	1.8	19
105	Fault-Tolerant Control for Multiple Open-Leg Faults in Open-End Winding Permanent Magnet Synchronous Motor System Based on Winding Reconnection. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 6068-6078	7.2	17
104	Electric Drives and Power Chargers: Recent Solutions to Improve Performance and Energy Efficiency for Hybrid and Fully Electric Vehicles. <i>IEEE Vehicular Technology Magazine</i> , 2020 , 15, 73-83	9.9	16
103	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
102	A Wireless Dimmable Lighting System Using Variable-Power Variable-Frequency Control. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 8392-8404	8.9	16
101	Hybrid Frequency Pacing for High-Order Transformed Wireless Power Transfer. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 1157-1170	7.2	16
100	Move-and-Charge System for Automatic Guided Vehicles. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	16
99	Wireless Energy-On-Demand Using Magnetic Quasi-Resonant Coupling. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 9057-9069	7.2	15
98	Sleeve design of permanent-magnet machine for low rotor losses. <i>Chinese Journal of Electrical Engineering</i> , 2020 , 6, 86-96	4	15
97	Magnetic Vibration Analysis of a New DC-Excited Multitoothed Switched Reluctance Machine. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	14
96	A Simplified Deadbeat Based Predictive Torque Control for Three-Level Simplified Neutral Point Clamped Inverter Fed IPMSM Drives Using SVM. <i>IEEE Transactions on Energy Conversion</i> , 2019 , 34, 1906-1916	5.4	13
95	A Wireless Servo Motor Drive With Bidirectional Motion Capability. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 12001-12010	7.2	13
94	A Switched-Capacitorless Energy-Encrypted Transmitter for Roadway-Charging Electric Vehicles. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-6	2	13
93	Model-Free Predictive Current Control of SPMSM Drives Using Extended State Observer. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	13
92	A New Electric Magnetic-Geared Machine for Electric Unmanned Aerial Vehicles. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-6	2	12
91	A Superconducting Vernier Motor for Electric Ship Propulsion. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-6	1.8	12
90	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

89	Modern electric machines and drives for wind power generation: A review of opportunities and challenges. <i>IET Renewable Power Generation</i> , 2021 , 15, 1864-1887	2.9	12
88	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
87	Design of Axial Flux Induction Motor With Reduced Back Iron for Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 293-301	6.8	11
86	Simultaneous Identification of Multiple Mechanical Parameters in a Servo Drive System Using Only One Speed. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 716-726	7.2	11
85	Modeling and Optimizing Method for Axial Flux Induction Motor of Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 12822-12831	6.8	10
84	Digital Implementation of Deadbeat-Direct Torque and Flux Control for Permanent Magnet Synchronous Machines in the M ⁺ Reference Frame. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 4610-4621	7.2	10
83	A new linear magnetic gear with adjustable gear ratios and its application for direct-drive wave energy extraction. <i>Renewable Energy</i> , 2017 , 105, 199-208	8.1	9
82	A Hybrid Methodology for Analyzing the Performance of Induction Motors with Efficiency Improvement by Specific Commercial Measures. <i>Energies</i> , 2019 , 12, 4497	3.1	9
81	Selective Wireless Power Transfer Using Magnetic Field Editing. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 2710-2719	7.2	9
80	Linear Active Disturbance Rejection Controllers for PMSM Speed Regulation System Considering the Speed Filter. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 14579-14592	7.2	9
79	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
78	Design and Analysis of a New Parallel-Hybrid-Excited Machine With Harmonic-Shift Structure. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 1759-1770	8.9	8
77	Fault-Tolerant Control of a Triple Redundant PMA-SynRM Driven Under Single-Phase Open-Circuit by Mono-Inverter. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 11593-11605	7.2	8
76	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
75	Stochastic optimization of multi-energy system operation considering hydrogen-based vehicle applications. <i>Advances in Applied Energy</i> , 2021 , 2, 100031		7
74	Design, Analysis, and Implementation of Wireless Shaded-Pole Induction Motors. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 6493-6503	8.9	7
73	A Double-Rotor Flux-Switching Permanent-Magnet Motor for Electric Vehicles With Magnetic Differential. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 1004-1015	8.9	7
72	Quantitative Comparison of Vernier Permanent-Magnet Motors with Interior Permanent-Magnet Motor for Hybrid Electric Vehicles. <i>Energies</i> , 2018 , 11, 2546	3.1	7

71	Wireless Power and Drive Transfer for Piping Network. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	7
70	Comparison of outer-rotor permanent magnet machines for in-wheel drives 2013 ,		6
69	Comparison of flux-switching machines with and without permanent magnets. <i>Chinese Journal of Electrical Engineering</i> , 2015 , 1, 78-84	4	6
68	Vibration Optimization of FSCW-IPM Motor Based on Iron-Core Modification for Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 14834-14845	6.8	6
67	Diagnosis of Open-Phase Faults for a Five-Phase PMSM Fed by a Closed-Loop Vector-Controlled Drive Based on Magnetic Field Pendulous Oscillation Technique. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 5582-5593	8.9	6
66	Design and Analysis of Double-Layer Electromagnetic Field Limiter for Wireless Rechargeable Medical Implants. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-6	2	6
65	Analysis of Multi-Coil Omnidirectional Energy Harvester. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-6	2	6
64	High-Resistance Connection Diagnosis in Five-Phase PMSMs Based on the Method of Magnetic Field Pendulous Oscillation and Symmetrical Components. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	6
63	Quantitative Comparisons of Six-Phase Outer-Rotor Permanent-Magnet Brushless Machines for Electric Vehicles. <i>Energies</i> , 2018 , 11, 2141	3.1	6
62	Development of Reliable Gearless Motors for Electric Vehicles. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-8	2	5
61	ELECTROMAGNETIC DESIGN AND ANALYSIS OF MAGNETLESS DOUBLE-ROTOR DUAL-MODE MACHINES. <i>Progress in Electromagnetics Research</i> , 2013 , 142, 333-351	3.8	5
60	A Critical Review of Emerging Technologies for Electric and Hybrid Vehicles. <i>IEEE Open Journal of Vehicular Technology</i> , 2021 , 1-1	5.3	5
59	Wireless Energy Trading in Traffic Internet. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	5
58	Different Active Disturbance Rejection Controllers Based on the Same Order GPI Observer. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	5
57	Controller-Based Periodic Disturbance Mitigation Techniques for Three-Phase Two-Level Voltage-Source Converters. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 6553-6568	11.9	5
56	Comparison of chaotic PWM algorithms for electric vehicle motor drives 2012 ,		4
55	A New Parallel-Hybrid-Excited Permanent-Magnet Machine With Harmonic-Differential Effect for Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 12734-12750	6.8	4
54	Electromagnetic Force and Vibration Study of Dual-Stator Consequent-Pole Hybrid Excitation Motor for Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 4377-4388	6.8	4

53	Natural Speed Observer for Nonsalient AC Motors. <i>IEEE Transactions on Power Electronics</i> , 2022 , 37, 14-20	2	4
52	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
51	A dual-memory permanent magnet brushless machine for automotive integrated starter-generator application 2012 ,		3
50	Optimal design and implementation of a permanent magnet linear vernier machine for direct-drive wave energy extraction 2012 ,		3
49	Discrete-time Current Regulator for AC Machine Drives. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	3
48	Deep-investigated Analytical Modeling of a Surface Permanent Magnet Vernier Motor. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	3
47	Evaluation of A Contra-Rotating Flux-Modulated Machine Featured with Dual Flux-Modulation for Wind Power Generation. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	3
46	A Simple Three-Degree-of-Freedom Digital Current Controller with Dead Beat Response for AC Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	3
45	Design and Analysis of Electromagnetic Gears With Variable Gear Ratios. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-6	2	2
44	DEVELOPMENT OF MULTIPLE-FREQUENCY WIRELESS COORDINATIVE MOTOR DRIVES. <i>Progress in Electromagnetics Research C</i> , 2019 , 91, 143-156	0.9	2
43	Fault Signature of a Flux-Switching DC-Field Generator. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	2
42	Switched Reluctance Motor Drives for Hybrid Electric Vehicles 2017 ,		2
41	. <i>CES Transactions on Electrical Machines and Systems</i> , 2017 , 1, 146-153	2.3	2
40	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
39	Investigation of a 3D-Magnetic Flux PMSM with High Torque Density for Electric Vehicles. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	2
38	Design and Comparison of Direct-Drive Stator-PM Machines for Electric Power Generation 2016 ,		2
37	A Consequent-Pole Magnetic-Geared Machine With Axially Embedded Permanent Magnets for Hybrid Electric Vehicle. <i>IEEE Access</i> , 2021 , 9, 14905-14917	3.5	2
36	A transverse flux permanent magnet linear generator for hybrid electric vehicles 2013 ,		1

35	Design and analysis of a DC field multitooth switched reluctance machine by using soft-magnetic-composite material 2013 ,		1
34	A new fault-tolerant flux-reversal doubly-salient magnetless motor drive with four-phase topology 2015 ,		1
33	Analysis of Synergistic Stator Permanent Magnet Machine with the Synergies of Flux-Switching and Flux-Reversal Effects. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	1
32	Vibration Reduction Design of Consequent Pole PM Machine by Symmetrizing Local and Global Magnetic Field. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	1
31	Online Adaptation of Two-Parameter Inverter Model in Sensorless Motor Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	1
30	A Linear Control Approach to Design Digital Speed Control System for PMSMs. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	1
29	Sensorless Control for SynRM Drives Using a Pseudo-Random High-Frequency Triangular-Wave Current Signal Injection Scheme. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	1
28	A Harmonic Injection Method Equivalent to the Resonant Controller for Speed Ripple Reduction of PMSM. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	1
27	Novel Flux-Switching Machine with Star-Array Permanent-Magnet Arrangement. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	1
26	Frequency-Modulated Wireless Direct-Drive Motor Control. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-7	2	1
25	Quantitative Analysis on Maximum Efficiency Point and Specific High-Efficiency Region of Permanent-Magnet Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	1
24	Design and Analysis of Partitioned-Stator Switched-Flux Dual-Excitation Machine for Hybrid Electric Vehicles. <i>World Electric Vehicle Journal</i> , 2018 , 9, 40	2.5	1
23	Maximum Power Tracking for Magnetic Field Editing Based Omnidirectional Wireless Power Transfer. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	1
22	Development of partitioned stator flux-switching machines for electric vehicles. <i>Journal of International Council on Electrical Engineering</i> , 2017 , 7, 276-281	0.1	0
21	Analysis of Air-Gap Field Modulation in Parallel-Hybrid-Excited Harmonic-Shift Machines. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-6	2	0
20	Resilience-Oriented Control for Cyber-Physical Hybrid Energy Storage Systems Using A Semi-Consensus Scheme: Design and Practice. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	0
19	. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 13536-13545	7.2	0
18	Analysis of Split-Tooth Stator-Slot Permanent-Magnet Machines with Different PM Arrangements. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1	2	0

17	Design and Analysis of a Doubly Salient Wound Field Starter Generator for Cost-Effective Automobile Application. <i>IEEE Transactions on Vehicular Technology</i> , 2022 , 1-1	6.8	o
16	A Digital Current Controller based on Active Resistance Term Feedback for SPMSM Drives. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	o
15	An Enhanced Deadbeat Predictive Current Control of SPMSM with Linear Disturbance Observer. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2022 , 1-1	5.6	o
14	Design and Analysis of Wireless Resolver for Wireless Switched Reluctance Motors. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	o
13	Design and analysis of high-performance motors with partitioned-stator topology for hybrid electric vehicles. <i>HKIE Transactions</i> , 2017 , 24, 228-236	2.9	
12	Nonlinear Varying-Network Magnetic Circuit Analysis of Consequent-Pole Permanent-Magnet Motor for Electric Vehicles. <i>World Electric Vehicle Journal</i> , 2021 , 12, 254	2.5	
11	Proposed Dual-Mode Machine for Wind Power Harvesting. <i>Springer Theses</i> , 2018 , 111-129	0.1	
10	Multi-tooth Machines Design and Analysis. <i>Springer Theses</i> , 2018 , 29-44	0.1	
9	Overview of Magnetless Doubly Salient Brushless Machines. <i>Springer Theses</i> , 2018 , 7-25	0.1	
8	Double-Rotor Machines Design and Analysis. <i>Springer Theses</i> , 2018 , 45-63	0.1	
7	Proposed Reliable Gearless Machine for Magnetic Differential System. <i>Springer Theses</i> , 2018 , 153-172	0.1	
6	Proposed Electronic-Geared Machine for Electric Vehicle Applications. <i>Springer Theses</i> , 2018 , 173-196	0.1	
5	Proposed Flux-Reversal DC-Field Machine for Wind Power Generation. <i>Springer Theses</i> , 2018 , 91-109	0.1	
4	Development of Singly Fed Mechanical-Offset Machine for Torque Ripple Minimization. <i>Springer Theses</i> , 2018 , 65-87	0.1	
3	Low-Frequency-Switching High-Frequency-Resonating Wireless Power Transfer. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-8	2	
2	Torque Component Redistribution and Enhancement for Hybrid Permanent Magnet Motor with Permanent Magnet Offset Placement. <i>IEEE Transactions on Transportation Electrification</i> , 2022 , 1-1	7.6	
1	Comparative Study and Design Optimization of a Dual-Mechanical-Port Electric Machine for Hybrid Electric Vehicle Applications. <i>IEEE Transactions on Vehicular Technology</i> , 2022 , 1-1	6.8	