

Christopher H T Lee

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/63354/christopher-h-t-lee-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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
123	Online Adaptation of Two-Parameter Inverter Model in Sensorless Motor Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	1
122	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
121	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
120	Natural Speed Observer for Nonsalient AC Motors. <i>IEEE Transactions on Power Electronics</i> , 2022 , 37, 14-20	7.2	4
119	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	0
118	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	0
117	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	0
116	Design and Analysis of Wireless Resolver for Wireless Switched Reluctance Motors. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	0
115	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
114	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	0
113	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	0
112	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
111	Discrete-time Current Regulator for AC Machine Drives. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	3
110	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	0
109	Deep-investigated Analytical Modeling of a Surface Permanent Magnet Vernier Motor. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	3
108	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

107	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
106	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
105	Novel Flux-Switching Machine with Star-Array Permanent-Magnet Arrangement. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	1
104	Wireless Energy Trading in Traffic Internet. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	5
103	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
102	Stochastic optimization of multi-energy system operation considering hydrogen-based vehicle applications. <i>Advances in Applied Energy</i> , 2021 , 2, 100031		7
101	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
100	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
99	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
98	Hybrid Frequency Pacing for High-Order Transformed Wireless Power Transfer. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 1157-1170	7.2	16
97	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
96	Low-Frequency-Switching High-Frequency-Resonating Wireless Power Transfer. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-8	2	
95	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
94	Design, Analysis, and Implementation of Wireless Shaded-Pole Induction Motors. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 6493-6503	8.9	7
93	Selective Wireless Power Transfer Using Magnetic Field Editing. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 2710-2719	7.2	9
92	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
91	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
90	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

89	Frequency-Modulated Wireless Direct-Drive Motor Control. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-7	2	1
88	Analysis of Multi-Coil Omnidirectional Energy Harvester. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-6	2	6
87	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
86	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
85	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
84	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
83	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
82	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
81	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
80	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
79	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
78	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
77	. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 13536-13545	7.2	0
76	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
75	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
74	Wireless Power and Drive Transfer for Piping Network. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	7
73	Analysis of Split-Tooth Stator-Slot Permanent-Magnet Machines with Different PM Arrangements. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1	2	0
72	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

71	Wireless Energy-On-Demand Using Magnetic Quasi-Resonant Coupling. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 9057-9069	7.2	15
70	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
69	Sleeve design of permanent-magnet machine for low rotor losses. <i>Chinese Journal of Electrical Engineering</i> , 2020 , 6, 86-96	4	15
68	Full-Range Soft-Switching Pulse Frequency Modulated Wireless Power Transfer. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 6533-6547	7.2	20
67	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
66	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
65	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
64	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
63	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
62	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
61	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
60	DEVELOPMENT OF MULTIPLE-FREQUENCY WIRELESS COORDINATIVE MOTOR DRIVES. <i>Progress in Electromagnetics Research C</i> , 2019 , 91, 143-156	0.9	2
59	Multi-Frequency Multi-Power One-to-Many Wireless Power Transfer System. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-9	2	28
58	A Wireless Servo Motor Drive With Bidirectional Motion Capability. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 12001-12010	7.2	13
57	Parametric Sensitivity Analysis and Design Optimization of an Interior Permanent Magnet Synchronous Motor. <i>IEEE Access</i> , 2019 , 7, 159918-159929	3.5	21
56	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
55	Design and Analysis of Wireless Ballastless Fluorescent Lighting. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 4065-4074	8.9	20
54	A Superconducting Vernier Motor for Electric Ship Propulsion. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-6	1.8	12

53	A Switched-Capacitorless Energy-Encrypted Transmitter for Roadway-Charging Electric Vehicles. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-6	2	13
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	Proposed Dual-Mode Machine for Wind Power Harvesting. <i>Springer Theses</i> , 2018 , 111-129	0.1	
50	Multi-tooth Machines Design and Analysis. <i>Springer Theses</i> , 2018 , 29-44	0.1	
49	Overview of Magnetless Doubly Salient Brushless Machines. <i>Springer Theses</i> , 2018 , 7-25	0.1	
48	Double-Rotor Machines Design and Analysis. <i>Springer Theses</i> , 2018 , 45-63	0.1	
47	Proposed Reliable Gearless Machine for Magnetic Differential System. <i>Springer Theses</i> , 2018 , 153-172	0.1	
46	Proposed Electronic-Geared Machine for Electric Vehicle Applications. <i>Springer Theses</i> , 2018 , 173-196	0.1	
45	Proposed Flux-Reversal DC-Field Machine for Wind Power Generation. <i>Springer Theses</i> , 2018 , 91-109	0.1	
44	Development of Singly Fed Mechanical-Offset Machine for Torque Ripple Minimization. <i>Springer Theses</i> , 2018 , 65-87	0.1	
43	Quantitative Comparisons of Six-Phase Outer-Rotor Permanent-Magnet Brushless Machines for Electric Vehicles. <i>Energies</i> , 2018 , 11, 2141	3.1	6
42	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
41	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
40	Overview of magnetless brushless machines. <i>IET Electric Power Applications</i> , 2018 , 12, 1117-1125	1.8	19
39	Move-and-Charge System for Automatic Guided Vehicles. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	16
38	Development of Reliable Gearless Motors for Electric Vehicles. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-8	2	5
37	Design and Analysis of Electromagnetic Gears With Variable Gear Ratios. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-6	2	2
36	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

35	A New Electric Magnetic-Geared Machine for Electric Unmanned Aerial Vehicles. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-6	2	12
34	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
33	Switched Reluctance Motor Drives for Hybrid Electric Vehicles 2017 ,		2
32	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
31	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
30	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
29	. <i>CES Transactions on Electrical Machines and Systems</i> , 2017 , 1, 146-153	2.3	2
28	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	
27	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
26	An Overview of Resonant Circuits for Wireless Power Transfer. <i>Energies</i> , 2017 , 10, 894	3.1	71
25	Cost-Effectiveness Comparison of Coupler Designs of Wireless Power Transfer for Electric Vehicle Dynamic Charging. <i>Energies</i> , 2016 , 9, 906	3.1	38
24	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
23	Design and Comparison of Direct-Drive Stator-PM Machines for Electric Power Generation 2016 ,		2
22	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
21	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
20	Fault Signature of a Flux-Switching DC-Field Generator. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	2
19	A new fault-tolerant flux-reversal doubly-salient magnetless motor drive with four-phase topology 2015 ,		1
18	Comparison of flux-switching machines with and without permanent magnets. <i>Chinese Journal of Electrical Engineering</i> , 2015 , 1, 78-84	4	6

17	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
16	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
15	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
14	A Magnetless Axial-Flux Machine for Range-Extended Electric Vehicles. <i>Energies</i> , 2014 , 7, 1483-1499	3.1	26
13	Magnetic Vibration Analysis of a New DC-Excited Multitoothed Switched Reluctance Machine. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	14
12	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
11	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
10	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
9	A transverse flux permanent magnet linear generator for hybrid electric vehicles 2013 ,		1
8	Comparison of outer-rotor permanent magnet machines for in-wheel drives 2013 ,		6
7	Quantitative Comparison and Analysis of Magnetless Machines With Reluctance Topologies. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3969-3972	2	30
6	Design and analysis of a DC field multitooth switched reluctance machine by using soft-magnetic-composite material 2013 ,		1
5	ELECTROMAGNETIC DESIGN AND ANALYSIS OF MAGNETLESS DOUBLE-ROTOR DUAL-MODE MACHINES. <i>Progress in Electromagnetics Research</i> , 2013 , 142, 333-351	3.8	5
4	A dual-memory permanent magnet brushless machine for automotive integrated starter-generator application 2012 ,		3
3	Optimal design and implementation of a permanent magnet linear vernier machine for direct-drive wave energy extraction 2012 ,		3
2	CHALLENGES AND OPPORTUNITIES OF ELECTRIC MACHINES FOR RENEWABLE ENERGY. <i>Progress in Electromagnetics Research B</i> , 2012 , 42, 45-74	0.7	54
1	Comparison of chaotic PWM algorithms for electric vehicle motor drives 2012 ,		4