

Min-Fu Hsieh

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Anti-Demagnetization Analysis of Fractional Slot Concentrated Windings Interior Permanent Magnet Motor Considering Effect of Rotor Design Parameters. IEEE Transactions on Magnetics, 2022, 58, 1-6.	2.1	10
2	Flux Intensifying Feature of Permanent Magnet Assisted Synchronous Reluctance Motor with High Torque Density. Electronics (Switzerland), 2022, 11, 397.	3.1	5
3	A Deadbeat Current and Flux Vector Control for IPMSM Drive with High Dynamic Performance. Applied Sciences (Switzerland), 2022, 12, 3789.	2.5	4
4	Machine Learning for Inter-Turn Short-Circuit Fault Diagnosis in Permanent Magnet Synchronous Motors. IEEE Transactions on Magnetics, 2022, 58, 1-7.	2.1	26
5	Thermal Performance Improvement by Rotating Thermosyphon Loop in Rotor of an Interior Permanent Magnet Synchronous Electric Motor. Inventions, 2022, 7, 37.	2.5	2
6	Swiveling Magnetization for Anisotropic Magnets for Variable Flux Spoke-Type Permanent Magnet Motor Applied to Electric Vehicles. Energies, 2022, 15, 3825.	3.1	0
7	Analysis and Comparison of Operational Characteristics of Electric Vehicle Traction Units Combining Two Different Types of Motors. IEEE Transactions on Vehicular Technology, 2022, 71, 5727-5742.	6.3	7
8	A Novel Variable Flux Spoke Type Permanent Magnet Motor With Swiveling Magnetization for Electric Vehicles. IEEE Access, 2022, 10, 62194-62209.	4.2	6
9	Analysis on Field Weakening of Flux Intensifying Synchronous Motor Considering PM Dimension and Armature Current. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	5
10	Improvement of Traction Motor Performance for Electric Vehicles Using Conductors With Insulation of High Thermal Conductivity Considering Cooling Methods. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	18
11	A Novel Robust Sensorless Technique for Field-Oriented Control Drive of Permanent Magnet Synchronous Motor. IEEE Access, 2021, 9, 100882-100894.	4.2	9
12	Development of Supercapacitor-Aided Hybrid Energy Storage System to Enhance Battery Life Cycle of Electric Vehicles. Sustainability, 2021, 13, 7682.	3.2	10
13	Convective Heat Transfer Motivated by Liquid-to-Vapor Density Difference in Centrifugal Force Field of Axially Rotating Loop Thermosyphons. Processes, 2021, 9, 1909.	2.8	3
14	A Simple Model-Based Deadbeat Direct-Current and Flux Linkage Control Scheme for Sensorless SPMSM Drive. , 2021, , .		2
15	Detailed heat transfer measurements of impinging swirling and non-swirling jet arrays emitted from grooved orifice plate. Chemical Engineering and Processing: Process Intensification, 2020, 149, 107820.	3.6	4
16	A Low Torque Ripple Direct Torque Control Method for Interior Permanent Magnet Motor. Applied Sciences (Switzerland), 2020, 10, 1723.	2.5	5
17	Irreversible Demagnetization Analysis for Multilayer Magnets of Permanent Magnet-Assisted Synchronous Reluctance Machines Considering Current Phase Angle. IEEE Transactions on Magnetics, 2019, 55, 1-9.	2.1	21
18	Torque Enhancement for a Novel Flux Intensifying PMa-SynRM Using Surface-Inset Permanent Magnet. IEEE Transactions on Magnetics, 2019, 55, 1-8.	2.1	35

#	ARTICLE	IF	CITATIONS
19	Analysis and Implementation of Novel Energy Management System for Electric Vehicles. , 2019, , .		0
20	Analysis of Flux Intensifying Effect on Synchronous Motors Applied to Electric Scooter. , 2019, , .		2
21	Analysis of Operational Characteristics of Traction Unit Combining Two Different Motors and Their Behaviors in Driving Cycle. , 2019, , .		2
22	Analysis of Magnet Configuration on Electromagnetic Performance of High-Speed Generators Using Post-assembly Magnetization. , 2019, , .		2
23	Performance Comparison of SynRM and Novel FI-PMa-SynRM with Different Rotor Surface Layouts. , 2019, , .		2
24	System Response of Permanent Magnet Synchronous Motor Drive Based on SiC Power Transistor. , 2019, , .		3
25	A Modified of DTC Control Applied to Novel FI- PMA-SynRM for Torque Ripple Reduction. , 2019, , .		3
26	Heat Transfer and Thermal Management of Interior Permanent Magnet Synchronous Electric Motor. Inventions, 2019, 4, 69.	2.5	16
27	Performance Analysis of Synchronous Reluctance Motor with Limited Amount of Permanent Magnet. Energies, 2019, 12, 3504.	3.1	9
28	Maximum torque per ampere control of IPMSM drive by fuzzy logic. Microsystem Technologies, 2018, 24, 19-26.	2.0	1
29	Operational Improvement of Interior Permanent Magnet Synchronous Motor Using Fuzzy Field-Weakening Control. Electronics (Switzerland), 2018, 7, 452.	3.1	16
30	Analysis of Local Demagnetization in Magnet for PM-Assisted Synchronous Reluctance Motors. , 2018, , .		1
31	An Investigation Into the Effect of PM Arrangements on PMA-SynRM Performance. IEEE Transactions on Industry Applications, 2018, 54, 5856-5868.	4.9	36
32	Performance Analysis of Permanent Magnet Motors for Electric Vehicles (EV) Traction Considering Driving Cycles. Energies, 2018, 11, 1385.	3.1	85
33	Comparative Study of PM-Assisted SynRM and IPMSM on Constant Power Speed Range for EV Applications. IEEE Transactions on Magnetics, 2017, 53, 1-6.	2.1	87
34	Transformer sound level caused by core magnetostriction and winding stress displacement variation. AIP Advances, 2017, 7, 056681.	1.3	6
35	Design and analysis of permanent-magnet assisted synchronous reluctance motor. , 2017, , .		8
36	Application of high permeability magnetic core sensor for IoTs device. , 2017, , .		0

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37	Reduction of switching loss of DC to AC power inverter with PID-like fuzzy controller. , 2017, , .		0
38	Modulating Ring Structural Configuration Influence on the Dual Air-Gap Magnetic Gear Electric Machine. IEEE Transactions on Magnetics, 2017, 53, 1-6.	2.1	7
39	Comparative study of PM-assisted SynRM and IPMSM on constant power speed range for EV applications. , 2017, , .		5
40	Application of Underactuated mechanism motor control in ball and beam system. , 2017, , .		0
41	Energy management system with Bi-directional converter on hybrid sources electric scooters. , 2017, , .		4
42	Performance Evaluation of Interior Permanent Magnet Motors Using Thin Electrical Steels. IEEJ Journal of Industry Applications, 2017, 6, 422-428.	1.1	7
43	Fuzzy Maximum Torque per Ampere and Maximum Torque per Voltage Control of Interior Permanent Magnet Synchronous Motor Drive. Sensors and Materials, 2017, , 461.	0.5	1
44	Cumulative currentâ€magnetizing method for a capacitorâ€discharged impulse magnetizer. International Journal of Circuit Theory and Applications, 2017, 45, 1439-1446.	2.0	0
45	Improved Non-Linear Torque Sharing Function Applied to Torque Ripple Reduction of Switched Reluctance Motor. , 2016, , .		1
46	HC-04 Multiphysics Analysis of Traction Motors Considering Electromagnetics and Mechanical Factors. , 2016, , .		0
47	Inductive Charging Coupler With Assistive Coils. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	8
48	The Development of an Indexing Method for the Comparison of Unbalanced Magnetic Pull in Electrical Machines. IEEE Transactions on Industry Applications, 2016, 52, 145-153.	4.9	21
49	Design and Analysis of Brushless Doubly Fed Reluctance Machine for Renewable Energy Applications. IEEE Transactions on Magnetics, 2016, 52, 1-5.	2.1	45
50	Magnetizing approach for permanent magnets with resonant power conversion. , 2015, , .		0
51	In-situ magnetization of permanent magnet machines considering magnetizer capacity and connection types. , 2015, , .		0
52	Impact of electrical steel punching process on performance of switched reluctance motors. , 2015, , .		0
53	Impact of Electrical Steel Punching Process on the Performance of Switched Reluctance Motors. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	23
54	Improved accuracy for performance prediction of synchronous reluctance motor by incorporating end turn inductance in 2-D FEM. , 2015, , .		2

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55	Effects of Multicore Structure on Magnetic Losses and Magnetomechanical Vibration at High Frequencies. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	4
56	Improved Accuracy for Performance Evaluation of Synchronous Reluctance Motor. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	16
57	Implicit predictor-corrector central finite difference scheme for the equations of magnetohydrodynamic simulations. Computer Physics Communications, 2015, 196, 1-12.	7.5	2
58	Thin current sheet formation in response to the loading and the depletion of magnetic flux during the substorm growth phase. Journal of Geophysical Research: Space Physics, 2015, 120, 4264-4278.	2.4	33
59	Reduction of Vibration and Sound-Level for a Single-Phase Power Transformer With Large Capacity. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	21
60	Design of Transformer With High-Permeability Ferromagnetic Core and Strengthened Windings for Short-Circuit Condition. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	15
61	Cost-effective Design for high efficiency synchronous reluctance motor. , 2015, , .		6
62	Dimension effect on a grid-connected brushless doubly-fed reluctance generator. , 2014, , .		0
63	A design approach integrating the magnetic circuit and electric circuit models for BDFIM. , 2014, , .		1
64	The measurement and indexing of unbalanced magnetic pull in electrical machines. , 2014, , .		0
65	An Analytical Method Combining Equivalent Circuit and Magnetic Circuit for BDFRG. IEEE Transactions on Magnetics, 2014, 50, 1-5.	2.1	20
66	Effects of Annealing on Magnetic Properties of Electrical Steel and Performances of SRM After Punching. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	26
67	Modeling and Effects of In Situ Magnetization of Isotropic Ferrite Magnet Motors. IEEE Transactions on Industry Applications, 2014, 50, 364-374.	4.9	15
68	Rigorous Design and Optimization of Brushless PM Motor Using Response Surface Methodology with Quantum-Behaved PSO Operator. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	13
69	Design and optimization of high-speed switched reluctance motor using soft magnetic composite material. , 2014, , .		3
70	Online Detection of Induction Motor's Stator Winding Short-Circuit Faults. IEEE Systems Journal, 2014, 8, 1272-1282.	4.6	51
71	Comparison of brushless induction and reluctance doubly-fed machines. , 2013, , .		1
72	Magnetic Circuit Modeling of Brushless Doubly-Fed Machines With Induction and Reluctance Rotors. IEEE Transactions on Magnetics, 2013, 49, 2359-2362.	2.1	36

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73	Design and Analysis of High Temperature Superconducting Generator for Offshore Wind Turbines. IEEE Transactions on Magnetics, 2013, 49, 1881-1884.	2.1	20
74	Analysis and Experimental Study of Permanent Magnet Machines With In-Situ Magnetization. IEEE Transactions on Magnetics, 2013, 49, 2351-2354.	2.1	10
75	Evaluation of Permanent Magnet Generator Manufactured Using Postassembly Magnetization. IEEE Transactions on Magnetics, 2013, 49, 4084-4087.	2.1	9
76	Rotor Eccentricity Effect on Cogging Torque of PM Generators for Small Wind Turbines. IEEE Transactions on Magnetics, 2013, 49, 1897-1900.	2.1	31
77	Damper Windings in Induction Machines for Reduction of Unbalanced Magnetic Pull and Bearing Wear. IEEE Transactions on Industry Applications, 2013, 49, 2206-2216.	4.9	41
78	A novel indicator of stator winding inter-turn fault in induction motor using infrared thermal imaging. Infrared Physics and Technology, 2013, 61, 330-336.	2.9	45
79	Hybrid design model for optimal designing of a switched reluctance motor. , 2013, , .		1
80	Winding Changeover Permanent-Magnet Generators for Renewable Energy Applications. IEEE Transactions on Magnetics, 2012, 48, 4168-4171.	2.1	21
81	Combining full and semi closed loop synchronous control for dual mechanically coupled ball screw system. International Journal of Computer Applications in Technology, 2012, 45, 139.	0.5	2
82	The integrated design of a permanent-magnet generator for small wind energy conversion system. International Journal of Computer Applications in Technology, 2012, 45, 98.	0.5	3
83	Different Arrangements for Dual-Rotor Dual-Output Radial-Flux Motors. IEEE Transactions on Industry Applications, 2012, 48, 612-622.	4.9	57
84	A Generalized Magnetic Circuit Modeling Approach for Design of Surface Permanent-Magnet Machines. IEEE Transactions on Industrial Electronics, 2012, 59, 779-792.	7.9	138
85	Design of Brushless Doubly-Fed Machines Based on Magnetic Circuit Modeling. IEEE Transactions on Magnetics, 2012, 48, 3017-3020.	2.1	27
86	Development of a Wave Energy Converter Using a Two Chamber Oscillating Water Column. IEEE Transactions on Sustainable Energy, 2012, 3, 482-497.	8.8	51
87	Modeling and control of a feed drive with multiple mechanically coupled ball screws. Asian Journal of Control, 2012, 14, 1227-1238.	3.0	7
88	Alternative Rotor Designs for High Performance Brushless Permanent Magnet Machines for Hybrid Electric Vehicles. IEEE Transactions on Magnetics, 2012, 48, 835-838.	2.1	100
89	Reducing bearing wear in induction generators for wave and tidal current energy devices. , 2011, , .		9
90	Damper windings in induction machines for reduction of unbalanced magnetic pull and bearing wear. , 2011, , .		3

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91	Post-Assembly Magnetization of Rare-Earth Fractional-Slot Surface Permanent-Magnet Machines Using a Two-Shot Method. IEEE Transactions on Industry Applications, 2011, 47, 2478-2486.	4.9	34
92	A Review of the Design Issues and Techniques for Radial-Flux Brushless Surface and Internal Rare-Earth Permanent-Magnet Motors. IEEE Transactions on Industrial Electronics, 2011, 58, 3741-3757.	7.9	162
93	Unbalanced Magnetic Pull in Cage Induction Machines for Fixed-Speed Renewable Energy Generators. IEEE Transactions on Magnetics, 2011, 47, 4096-4099.	2.1	18
94	Subassembly Magnetization Strategies for a Transverse Flux Motor Equipped With NdFeB Magnet. IEEE Transactions on Magnetics, 2011, 47, 3681-3684.	2.1	3
95	Modeling and effects of in-situ magnetization of isotropic ferrite magnet motors. , 2011, , .		1
96	Calculation of Radial Forces in Cage Induction Motors at Start€”The Effect of Rotor Differential. IEEE Transactions on Magnetics, 2010, 46, 3029-3032.	2.1	23
97	Different arrangements for dual-rotor dual-output radial-flux motors. , 2010, , .		2
98	Issues with low speed direct-drive permanentmagnet generator design — Comparison of radial-flux slotted and torus machines. , 2010, , .		0
99	A Small Segmented Oscillating Water Column Using a Savonius Rotor Turbine. IEEE Transactions on Industry Applications, 2010, 46, 2080-2088.	4.9	24
100	A Multichamber Oscillating Water Column Using Cascaded Savonius Turbines. IEEE Transactions on Industry Applications, 2010, 46, 2372-2380.	4.9	25
101	Design of Large-Power Surface-Mounted Permanent-Magnet Motors Using Postassembly Magnetization. IEEE Transactions on Industrial Electronics, 2010, 57, 3376-3384.	7.9	40
102	Post-assembly magnetization of rare-earth fractional-slot permanent-magnet machines using a Two-Shot Method. , 2010, , .		4
103	A multi-chamber oscillating water column using cascaded Savonius turbines. , 2009, , .		3
104	Unbalanced Magnet Pull in Large Brushless Rare-Earth Permanent Magnet Motors With Rotor Eccentricity. IEEE Transactions on Magnetics, 2009, 45, 4586-4589.	2.1	79
105	Cogging torque reduction in axial flux machines for small wind turbines. , 2009, , .		14
106	A general design method for electric machines using magnetic circuit model considering the flux saturation problem. , 2009, , .		2
107	A small segmented oscillating water column using a savonius rotor turbine. , 2008, , .		9
108	Novel stator design of fan motors using soft magnetic composites. Journal of Applied Physics, 2008, 103, 07F109.	2.5	1

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109	Analysis of a tubular linear motor with soft magnetic composites for reciprocating compressors. Journal of Applied Physics, 2008, 103, 07F112.	2.5	4
110	Design of modular inverter for distributed power generation. , 2008, , .		0
111	Design of Large Power Surface-Mounted Permanent-Magnet Motors Using Post-Assembly Magnetization. , 2007, , .		6
112	Integrated Design and Realization of a Hubless Rim-driven Thruster. , 2007, , .		15
113	Servo design of a vertical axis drive using dual linear motors for high speed electric discharge machining. International Journal of Machine Tools and Manufacture, 2007, 47, 546-554.	13.4	39
114	Post Assembly Magnetization Patterns in Rare-Earth Permanent-Magnet Motors. IEEE Transactions on Magnetics, 2007, 43, 2489-2491.	2.1	39
115	Characteristics Regulation for Manufacture of Permanent-Magnet Motors Using Post-Assembly Magnetization. IEEE Transactions on Magnetics, 2007, 43, 2510-2512.	2.1	22
116	Investigation on End Winding Inductance in Motor Stator Windings. IEEE Transactions on Magnetics, 2007, 43, 2513-2515.	2.1	28
117	Modeling and synchronous control of a single-axis stage driven by dual mechanically-coupled parallel ball screws. International Journal of Advanced Manufacturing Technology, 2007, 34, 933-943.	3.0	45
118	An Efficient Approach for Cogging Torque Analysis of Motors With Three-Dimensional Flux Distribution. IEEE Transactions on Magnetics, 2006, 42, 3464-3466.	2.1	7
119	An Efficient Approach for Cogging Torque Analysis of Motors with Three-Dimensional Flux Distribution. , 2006, , .		0
120	An investigation on influence of magnet arc shaping upon back electromotive force waveforms for design of permanent-magnet brushless motors. IEEE Transactions on Magnetics, 2005, 41, 3949-3951.	2.1	40
121	Synchronous control of linear servo systems for CNC machine tools. , 2003, , .		6
122	Limit loads for knuckle-encroaching nozzles in torispherical heads: Experimental verification of finite element predictions. Journal of Strain Analysis for Engineering Design, 2002, 37, 313-326.	1.8	6
123	Computer-aided design and analysis of new fan motors. IEEE Transactions on Magnetics, 2002, 38, 3467-3474.	2.1	15
124	An assessment of ASME III and CEN TC54 methods of determining plastic and limit loads for pressure system components. Journal of Strain Analysis for Engineering Design, 2001, 36, 301-312.	1.8	26
125	Nozzles in the knuckle region of a torispherical head: limit load interaction under combined pressure and piping loads. International Journal of Pressure Vessels and Piping, 2000, 77, 807-815.	2.6	15
126	Nozzles in the knuckle region of a torispherical head: Stress levels and load interaction effects. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2000, 214, 31-41.	2.5	3

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127	A LUMPED-MASS MODEL FOR THE DYNAMIC ANALYSIS OF THE SPATIAL BEAM-LIKE LATTICE GIRDERS. Journal of Sound and Vibration, 1999, 228, 275-303.	3.9	6
128	Development of a real-time servo control test bench. IEEE Transactions on Education, 1997, 40, 242-252.	2.4	2
129	Operating efficiency enhancement of hybrid energy storage system for IPMSM drives. International Journal of Electronics, 0, , 1-15.	1.4	0