

Han-Wook Cho

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

686
citations

623734

14
h-index

580821

25
g-index

46
all docs

46
docs citations

46
times ranked

639
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and Analysis of a High-Speed Brushless DC Motor for Centrifugal Compressor. IEEE Transactions on Magnetics, 2007, 43, 2573-2575.	2.1	101
2	Analytical Torque Calculations and Experimental Testing of Permanent Magnet Axial Eddy Current Brake. IEEE Transactions on Magnetics, 2013, 49, 4152-4155.	2.1	77
3	Analysis and Experimental Verification of Moving-Magnet Linear Actuator With Cylindrical Halbach Array. IEEE Transactions on Magnetics, 2004, 40, 2068-2070.	2.1	44
4	Armature Reaction Field and Inductance Calculations for a Permanent Magnet Linear Synchronous Machine Based on Subdomain Model. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	33
5	The Influence of Magnetization Pattern on the Rotor Losses of Permanent Magnet High-Speed Machines. IEEE Transactions on Magnetics, 2004, 40, 2062-2064.	2.1	31
6	Thrust analysis and measurements of tubular linear actuator with cylindrical halbach array. IEEE Transactions on Magnetics, 2005, 41, 2028-2031.	2.1	30
7	Analysis of unbalanced force for high-speed slotless permanent magnet machine with halbach array. IEEE Transactions on Magnetics, 2003, 39, 3265-3267.	2.1	27
8	Eddy-Current Loss Analysis of Noncontact Magnetic Device With Permanent Magnets Based on Analytical Field Calculations. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	27
9	Equivalent Magnetic Circuit Based Levitation Force Computation of Controlled Permanent Magnet Levitation System. IEEE Transactions on Magnetics, 2012, 48, 4038-4041.	2.1	26
10	Characteristic Analysis of Interior Permanent-Magnet Synchronous Machine With Fractional-Slot Concentrated Winding Considering Nonlinear Magnetic Saturation. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	24
11	Dynamic characteristic analysis and experiments of moving-magnet linear actuator with cylindrical Halbach array. IEEE Transactions on Magnetics, 2005, 41, 3814-3816.	2.1	21
12	Electromagnetic Performance Analysis of Wind Power Generator With Outer Permanent Magnet Rotor Based on Turbine Characteristics Variation Over Nominal Wind Speed. IEEE Transactions on Magnetics, 2011, 47, 3292-3295.	2.1	19
13	Zero-power control of magnetic levitation vehicles with permanent magnets. , 2010, , .		18
14	Analytical Calculation and Experimental Verification of Cogging Torque and Optimal Point in Permanent Magnet Synchronous Motors. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	18
15	Semi-Three-Dimensional Analytical Torque Calculation and Experimental Testing of an Eddy Current Brake With Permanent Magnets. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	18
16	Investigation of Temperature Rise in an Induction Motor Considering the Effect of Loading. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	14
17	Analytical Modeling and Experimental Verification for Electromagnetic Analysis of Tubular Linear Synchronous Machines With Axially Magnetized Permanent Magnets and Flux-Passing Iron Poles. IEEE Transactions on Magnetics, 2018, 54, 1-6.	2.1	14
18	Electromechanical Parameters Calculation of Permanent Magnet Synchronous Motor Using the Transfer Relations Theorem. IEEE Transactions on Magnetics, 2007, 43, 2495-2497.	2.1	13

#	ARTICLE	IF	CITATIONS
19	Design and Analysis of High-Speed Permanent Magnet Synchronous Generator With Rotor Structure Considering Electromechanical Characteristics. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.7	11
20	Comparative Study of Torque Analysis for Synchronous Permanent Magnet Coupling With Parallel and Halbach Magnetized Magnets Based on Analytical Field Calculations. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	10
21	Optimum Iron Pole Design of a Tubular Linear Synchronous Machine With Double-Sided Axially Magnetized Permanent Magnets Considering Leakage Flux. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	9
22	Core Loss Calculation of Permanent Magnet Machines Using Analytical Method. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	9
23	Force Analysis of Superconducting Coils in Actively Shielded Air-Core Superconducting Machines. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-8.	1.7	9
24	Analytical Investigation of the On-Load Electromagnetic Performance of Magnetic-Geared Permanent-Magnet Machines. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	9
25	Measurement and Torque Calculation of Magnetic Spur Gear Based on Quasi 3-D Analytical Method. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	8
26	Exploring Fully Superconducting Air-Core Machine Topology for Off-Shore Wind Turbine Applications. IEEE Transactions on Magnetics, 2019, 55, 1-6.	2.1	8
27	Experiment and characteristic analysis of disk type PMLSM with Halbach array. IEEE Transactions on Magnetics, 2005, 41, 3817-3819.	2.1	7
28	The influence of mechanical spring on the dynamic performance of a moving-magnet linear actuator with cylindrical Halbach array. , 0, , .		6
29	Characteristic Analysis of Wave Power Generator Considering Bolting to Fix Permanent Magnet Based on Analytical Method. IEEE Transactions on Magnetics, 2019, 55, 1-5.	2.1	6
30	Analytical prediction for electromagnetic performance of interior permanent magnet machines based on subdomain model. AIP Advances, 2017, 7, 056669.	1.3	5
31	Effects of Mechanical Resonance on Vibrations of Mechanical Systems With Permanent Magnet Machines. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	4
32	Pulsed Electromagnetic Fields Stimulate Cellular Proliferation in Different Types of Cells. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	4
33	Detailed analytical modeling for electromagnetic performance in actively shielded superconducting machines. AIP Advances, 2021, 11, .	1.3	4
34	Design and Preliminary Experiments of a Rotating Armature Partial Superconducting Air-Core Generator. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	4
35	Parametric analysis and optimized torque characteristics of a coaxial magnetic gear based on the subdomain analytical model. AIP Advances, 2017, 7, .	1.3	3
36	Characteristic Analysis of a 2 kW High Speed Permanent Magnet Synchronous Generator Using the Equivalent Circuit Method. , 2007, , .		3

#	ARTICLE	IF	CITATIONS
37	Development of high-speed brushless DC motor for turbo-compressor. , 2005, , .		2
38	Experimental verification and analytical calculation of unbalanced magnetic force in permanent magnet machines. AIP Advances, 2017, 7, 056652.	1.3	2
39	Design of high-speed permanent magnet synchronous machines considering thermal demagnetization and mechanical characteristic of permanent magnet. AIP Advances, 2021, 11, 025129.	1.3	2
40	Design of high speed linear switched reluctance motor. , 2007, , .		2
41	Characteristic analysis of disk type PMLSM with/without skew. , 2005, , .		1
42	Design and characteristic analysis of small scale magnetic levitation and propulsion system for maglev train application. , 2011, , .		1
43	Analysis on electromagnetic vibration source permanent magnet synchronous motor for compressor of electric vehicles. , 2012, , .		1
44	Electro-Mechanical Characteristics Analysis and Experimental Study of PMSM According to Rotor Eccentricity. IEEE Transactions on Magnetics, 2022, 58, 1-5.	2.1	1
45	Design and analysis of magnetic geared permanent magnet machine considering loss reduction. , 2016, , .		0
46	Experimental verification and analytical calculation of local force in permanent magnet synchronous machine. , 2016, , .		0