Jang-Young

List of Publications by Year
in descending order

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213 papers	1,916 citations	279701 23 h-index	395590 33 g-index
213 all docs	213 docs citations	213 times ranked	1475 citing authors

#	Article	IF	Citations
1	Analytical Torque Calculations and Experimental Testing of Permanent Magnet Axial Eddy Current Brake. IEEE Transactions on Magnetics, 2013, 49, 4152-4155.	1.2	77
2	Improved Analytical Model for Electromagnetic Analysis of Axial Flux Machines With Double-Sided Permanent Magnet Rotor and Coreless Stator Windings. IEEE Transactions on Magnetics, 2011, 47, 2760-2763.	1.2	69
3	Vibration Analysis and Measurements Through Prediction of Electromagnetic Vibration Sources of Permanent Magnet Synchronous Motor Based on Analytical Magnetic Field Calculations. IEEE Transactions on Magnetics, 2012, 48, 4216-4219.	1.2	53
4	Magnet Pole Shape Design of Permanent Magnet Machine for Minimization of Torque Ripple Based on Electromagnetic Field Theory. IEEE Transactions on Magnetics, 2011, 47, 3586-3589.	1.2	52
5	Analysis and Experimental Verification of Moving-Magnet Linear Actuator With Cylindrical Halbach Array. IEEE Transactions on Magnetics, 2004, 40, 2068-2070.	1.2	44
6	Analysis and Control of Electromagnetic Coupling Effect of Levitation and Guidance Systems for Semi-High-Speed Maglev Train Considering Current Direction. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	43
7	Comparison of Axial Flux Permanent Magnet Synchronous Machines With Electrical Steel Core and Soft Magnetic Composite Core. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	42
8	Rotor Natural Frequency in High-Speed Permanent-Magnet Synchronous Motor for Turbo-Compressor Application. IEEE Transactions on Magnetics, 2011, 47, 4258-4261.	1.2	41
9	Detent Force Minimization of Permanent Magnet Linear Synchronous Machines Using Subdomain Analytical Method Considering Auxiliary Teeth Configuration. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	41
10	Improved Analytical Modeling of Axial Flux Machine With a Double-Sided Permanent Magnet Rotor and Slotless Stator Based on an Analytical Method. IEEE Transactions on Magnetics, 2012, 48, 2945-2948.	1.2	37
11	Design and Electromagnetic Field Characteristic Analysis of 1.5 kW Small Scale Wind Power Generator for Substitution of Nd-Fe-B to Ferrite Permanent Magnet. IEEE Transactions on Magnetics, 2012, 48, 2933-2936.	1.2	36
12	Rotor Design of High-Speed Permanent Magnet Synchronous Motors Considering Rotor Magnet and Sleeve Materials. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-4.	1.1	34
13	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.	1.2	33
14	Analytical magnetic torque calculations and experimental testing of radial flux permanent magnet-type eddy current brakes. Journal of Applied Physics, 2012, 111, .	1.1	32
15	Design Optimization of Interior Permanent Magnet Synchronous Motor for Electric Compressors of Air-Conditioning Systems Mounted on EVs and HEVs. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	31
16	Thrust analysis and measurements of tubular linear actuator with cylindrical halbach array. IEEE Transactions on Magnetics, 2005, 41, 2028-2031.	1.2	30
17	Characteristic Analysis on Axial Flux Permanent Magnet Synchronous Generator Considering Wind Turbine Characteristics According to Wind Speed for Small-Scale Power Application. IEEE Transactions on Magnetics, 2012, 48, 2937-2940.	1.2	30
18	Design and Analysis of Axial Permanent Magnet Couplings Based on 3D FEM. IEEE Transactions on Magnetics, 2013, 49, 3985-3988.	1.2	30

#	ARTICLE	IF	CITATIONS
19	Correlation Between Rotor Vibration and Mechanical Stress in Ultra-High-Speed Permanent Magnet Synchronous Motors. IEEE Transactions on Magnetics, 2017, 53, 1-6.	1.2	28
20	Design and Characteristic Analysis of a High-Speed Permanent Magnet Synchronous Motor Considering the Mechanical Structure for High-Speed and High-Head Centrifugal Pumps. IEEE Transactions on Magnetics, 2018, 54, 1-6.	1.2	28
21	Eddy-Current Loss Analysis of Noncontact Magnetic Device With Permanent Magnets Based on Analytical Field Calculations. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	27
22	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.	1.1	24
23	The influence of substrate-dependent triboelectric charging of graphene on the electric potential generation by the flow of electrolyte droplets. Nano Energy, 2018, 54, 66-72.	8.2	24
24	Comparative Study of Electromagnetic Performance of High-Speed Synchronous Motors With Rare-Earth and Ferrite Permanent Magnets. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	23
25	Torque Analysis and Measurements of Cylindrical Air-Gap Synchronous Permanent Magnet Couplings Based on Analytical Magnetic Field Calculations. IEEE Transactions on Magnetics, 2013, 49, 3921-3924.	1.2	22
26	Torque analysis and measurements of a permanent magnet type Eddy current brake with a Halbach magnet array based on analytical magnetic field calculations. Journal of Applied Physics, 2014, 115, 17E707.	1.1	22
27	Analysis and Control of the Electromagnetic Coupling Effect of the Levitation and Guidance Systems for a Semi-High-Speed MAGLEV Using a Magnetic Equivalent Circuit. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	22
28	Design and Experimental Analysis of a 3 kW Single-Phase Linear Permanent Magnet Generator for Stirling Engines. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	20
29	Design of an outer-rotor-type permanent magnet motor for electric scooter propulsion systems. , 2010, , .		19
30	Analysis of Torque Pulsation Considering Interior Permanent Magnet Rotor Rib Shape Using Response Surface Methodology. IEEE Transactions on Magnetics, 2012, 48, 979-982.	1.2	19
31	Experimental Verification and Electromagnetic Analysis for Performance of Interior PM Motor According to Slot/Pole Number Combination. IEEE Transactions on Magnetics, 2012, 48, 987-990.	1.2	18
32	Performance Evaluation of Radial- and Axial-Flux PM Wind Power Generators With Mechanical Energy Storage System. IEEE Transactions on Energy Conversion, 2015, 30, 237-245.	3.7	18
33	Analytical Calculation and Experimental Verification of Cogging Torque and Optimal Point in Permanent Magnet Synchronous Motors. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	18
34	Characteristic Analysis of the Influence of Auxiliary Teeth and Notching on the Reduction of the Detent Force of a Permanent Magnet Linear Synchronous Machine. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	18
35	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.	1.1	18
36	Algorithm of Linear Induction Motor Control for Low Normal Force of Magnetic Levitation Train Propulsion System. IEEE Transactions on Magnetics, 2018, 54, 1-4.	1.2	17

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37	Low-Profile, Electrically Small Planar Huygens Source Antenna With an Endfire Radiation Characteristic. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 412-416.	2.4	16
38	Characteristic Analysis of Permanent Magnet Synchronous Machines Under Different Construction Conditions of Rotor Magnetic Circuits by Using Electromagnetic Transfer Relations. IEEE Transactions on Magnetics, 2011, 47, 3665-3668.	1.2	15
39	Design and Analysis of Surface-Mounted-Type Variable Flux Permanent Magnet Motor for Wide-Speed Range Applications. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	15
40	Comparative Analysis of Eddy-Current Loss in Permanent Magnet Synchronous Machine Considering PM Shape and Skew Effect Using 3-D FEA. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	14
41	Design and analysis of linear oscillatory single-phase permanent magnet generator for free-piston stirling engine systems. AIP Advances, 2017, 7, .	0.6	14
42	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.	1.2	14
43	Electromechanical Parameters Calculation of Permanent Magnet Synchronous Motor Using the Transfer Relations Theorem. IEEE Transactions on Magnetics, 2007, 43, 2495-2497.	1.2	13
44	Dynamic and Experimental Performance of Linear-Switched Reluctance Machine With Inductance Variation According to Airgap Length. IEEE Transactions on Magnetics, 2010, 46, 2334-2337.	1.2	13
45	Electromagnetic Vibration Analysis and Measurements of Double-Sided Axial-Flux Permanent Magnet Generator With Slotless Stator. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	13
46	Electromagnetic Analysis and Experimental Testing of a Tubular Linear Synchronous Machine With a Double-Sided Axially Magnetized Permanent Magnet Mover and Coreless Stator Windings by Using Semianalytical Techniques. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	13
47	Characteristic Analysis and Experiment of Surface-Mounted Type Variable-Flux Machines Considering Magnetization/Demagnetization Based on Electromagnetic Transfer Relations. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	13
48	No-Load Analysis of PMLSM With Halbach Array and PM Overhang Based on Three-Dimensional Analytical Method. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.1	13
49	Analysis on the Pitching Moment in Permanent-Magnet Linear Synchronous Motor for Linear Motion Stage Systems. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	13
50	Design and Analysis of Interior Permanent Magnet Synchronous Motor Considering Saturated Rotor Bridge using Equivalent Magnetic Circuit. Journal of Magnetics, 2014, 19, 404-410.	0.2	13
51	Thrust Calculations and Measurements of Cylindrical Linear Actuator Using Transfer Relations Theorem. IEEE Transactions on Magnetics, 2008, 44, 4081-4084.	1.2	12
52	Robust Wireless Sensor and Actuator Networks for Networked Control Systems. Sensors, 2019, 19, 1535.	2.1	12
53	Comparison of Electromagnetic and Dynamic Characteristics of Linear Oscillating Actuators With Rare-Earth and Ferrite Magnets. IEEE Transactions on Magnetics, 2019, 55, 1-4.	1.2	12
54	Electromagnetic Characteristic Analysis of High-Speed Motors With Rare-Earth and Ferrite Permanent Magnets Considering Current Harmonics. IEEE Transactions on Magnetics, 2021, 57, 1-5.	1.2	12

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55	Characteristic Analysis of Tubular-Type Permanent-Magnet Linear Magnetic Coupling Based on Analytical Magnetic Field Calculations. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.1	11
56	Core Loss Analysis of Permanent Magnet Linear Synchronous Generator Considering the 3-D Flux Path. IEEE Transactions on Magnetics, 2018, 54, 1-4.	1.2	11
57	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.	1.1	11
58	Optimal Design of a BLDC Motor Considering Three-Dimensional Structures Using the Response Surface Methodology. Energies, 2022, 15, 461.	1.6	11
59	Electromagnetic analysis and control parameter estimation of moving-coil linear oscillatory actuator. Journal of Applied Physics, 2006, 99, 08R307.	1.1	10
60	Comparative Investigation on Integrated System of Permanent Magnet Synchronous Generator and Power Converter Based on Machine Topology for Small-Scale Wind Power Application. IEEE Transactions on Magnetics, 2013, 49, 3846-3849.	1.2	10
61	Design Considerations of Linear Electromagnetic Actuator for Hybrid-Type Active Mount Damper. IEEE Transactions on Magnetics, 2013, 49, 4080-4083.	1.2	10
62	Influence of Rotor Overhang Variation on Generating Performance of Axial Flux Permanent Magnet Machine Based on 3-D Analytical Method. IEEE Transactions on Magnetics, 2014, 50, 1-5.	1.2	10
63	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.	1.2	10
64	Characteristic Analysis of Permanent-Magnet Synchronous Generator With Slotless Stator Structure Considering Magnetic/Mechanical Air Gap Using Semi-3-D Analytical Method. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	10
65	Design and analysis of tubular permanent magnet linear generator for small-scale wave energy converter. AIP Advances, 2017, 7, .	0.6	10
66	Analysis of Eddy Current Loss in Permanent Magnet Linear Synchronous Generator Considering Tapped Holes in Movers Using Semi-3-D Analytical Method. IEEE Transactions on Magnetics, 2017, 53, 1-5.	1.2	10
67	Analysis on electric power consumption characteristics of cylindrical linear oscillatory actuator with Halbach permanent magnet array mover under electromechanical resonance frequency. Journal of Applied Physics, 2011, 109, 07E515.	1.1	9
68	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.	1.2	9
69	Experimental and Analytical Study of Single-Phase Squirrel-Cage Induction Motor Considering End-Ring Porosity Rate. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	9
70	Core Loss Calculation of Permanent Magnet Machines Using Analytical Method. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	9
71	Analytical Investigation of the On-Load Electromagnetic Performance of Magnetic-Geared Permanent-Magnet Machines. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	9
72	A low-speed high-torque permanent magnet motor for electric scooters. , 2011, , .		8

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73	Torque Analysis and Experimental Testing of Axial Flux Permanent Magnet Couplings Using Analytical Field Calculations Based on Two Polar Coordinate Systems. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	8
74	Magnet pole shape design for reduction of thrust ripple of slotless permanent magnet linear synchronous motor with arc-shaped magnets considering end-effect based on analytical method. AIP Advances, 2017, 7, .	0.6	8
75	Measurement and Torque Calculation of Magnetic Spur Gear Based on Quasi 3-D Analytical Method. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	8
76	Electromagnetic Design and Dynamic Characteristics of Permanent Magnet Linear Oscillating Machines Considering Instantaneous Inductance According to Mover Position. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.1	8
77	Optimal Design of Short-Stroke Linear Oscillating Actuator for Minimization of Side Force Using Response Surface Methodology. IEEE Transactions on Magnetics, 2022, 58, 1-5.	1.2	8
78	Design and Analysis of Surface-Mounted PM Motor of Compressor for Electric Vehicles Applications according to Slot/Pole Combinations. Transactions of the Korean Institute of Electrical Engineers, 2011, 60, 1846-1857.	0.1	8
79	Experiment and characteristic analysis of disk type PMLSM with Halbach array. IEEE Transactions on Magnetics, 2005, 41, 3817-3819.	1.2	7
80	Characteristic Analysis of Direct-Drive Wind Power Generator considering Permanent Magnet Shape and Skew Effects to Reduce Torque Ripple Based on Analytical Approach. IEEE Transactions on Magnetics, 2013, 49, 3917-3920.	1.2	7
81	Dynamic Characteristic Analysis of Interior Permanent Magnet Synchronous Motor Considering Varied Parameters by Outer Disturbance Based on Electromagnetic Field Analysis. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	7
82	Thrust and efficiency analysis of linear induction motors for semi-high-speed Maglev trains using 2D finite element models. , 2016, , .		7
83	Torque Characteristic Analysis and Measurement of Magnetic Rackâ€“Pinion Gear Based on Analytical Method. IEEE Transactions on Magnetics, 2019, 55, 1-5.	1.2	7
84	Experimental Verification and Analytical Study of Influence of Rotor Eccentricity on Electromagnetic Characteristics of Permanent Magnet Machine. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.1	7
85	Experimental Verification and 2D Equivalent Analysis Techniques of BLDC Motor With Permanent Magnet Overhang and Housing-Integrated Rotor Core. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.1	7
86	Parametric Analysis and Experimental Testing of Radial Flux Type Synchronous Permanent Magnet Coupling Based on Analytical Torque Calculations. Journal of Electrical Engineering and Technology, 2014, 9, 926-931.	1.2	7
87	The influence of mechanical spring on the dynamic performance of a moving-magnet linear actuator with cylindrical Halbach array. , 0, , .		6
88	Analysis and comparison for rotor eddy current losses of permanent magnet synchronous generator according to dc and ac load conditions. Journal of Applied Physics, 2009, 105, 07F109.	1.1	6
89	Design and Dynamic Analysis of Magnetically Levitated Electromagnets With Low-Resolution Position Sensor. IEEE Transactions on Magnetics, 2012, 48, 4546-4549.	1.2	6
90	Characteristic Analysis on the Influence of Misaligned Rotor Position of Double-Sided Axial Flux Permanent Magnet Machine and Experimental Verification. IEEE Transactions on Magnetics, 2012, 48, 2941-2944.	1.2	6

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91	Comparative analysis of surface-mounted and interior permanent magnet synchronous motor for compressor of air-conditioning system in electric vehicles. , 2015, , .		6
92	Core Loss Analysis of Permanent Magnet Synchronous Generator With Slotless Stator. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-4.	1.1	6
93	Characteristic Analysis of Wave Power Generator Considering Bolting to Fix Permanent Magnet Based on Analytical Method. IEEE Transactions on Magnetics, 2019, 55, 1-5.	1.2	6
94	Experimental Verification and Electromagnetic Characteristic Analysis of Permanent Magnet Linear Oscillating Actuator Using Semi 3D Analysis Technique With Corrected Stacking Factor. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.1	6
95	Analytical Prediction and Experimental Verification of Electromagnetic Performance of a Surface-Mounted Permanent Magnet Motor having a Fractional Slot/Pole Number Combination. Journal of Magnetics, 2014, 19, 84-89.	0.2	6
96	Design of a direct-coupled radial-flux permanent magnet generator for wind turbines. , 2010, , .		5
97	Torque analysis of axial flux PM type eddy current brake based on analytical field computations. , 2011, , .		5
98	Optimum Design of Stator and Rotor Shape for Cogging Torque Reduction in Interior Permanent Magnet Synchronous Motors. Journal of Power Electronics, 2013, 13, 546-551.	0.9	5
99	Analytical prediction for electromagnetic performance of interior permanent magnet machines based on subdomain model. AIP Advances, 2017, 7, 056669.	0.6	5
100	Analytical torque calculation and experimental verification of synchronous permanent magnet couplings with Halbach arrays. AIP Advances, 2018, 8, .	0.6	5
101	Transmission Scheduling Schemes of Industrial Wireless Sensors for Heterogeneous Multiple Control Systems. Sensors, 2018, 18, 4284.	2.1	5
102	Characteristic Analysis of a V-Shape Interior Permanent Magnet Synchronous Motor According to Design Parameter. , 2018, , .		5
103	Experimentally Verifying the Generation Characteristics of a Double-Sided Linear Permanent Magnet Synchronous Generator for Ocean Wave Energy Conversion. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-4.	1.1	5
104	Electromagnetic Analysis of Single-Phase Linear Oscillatory Actuator Based on Subdomain Analytical Model With End and Stacking Effects. IEEE Transactions on Magnetics, 2021, 57, 1-5.	1.2	5
105	Parametric Analysis of Tubular-Type Linear Magnetic Couplings with Halbach Array Magnetized Permanent Magnet by Using Analytical Force Calculation. Journal of Magnetics, 2016, 21, 110-114.	0.2	5
106	FFT-Based Position Estimation in Switched Reluctance Motor Drives. Journal of Magnetics, 2014, 19, 90-100.	0.2	5
107	Self-Aligning Limited-Angle Rotary Torque PM Motor for Control Valve: Design and Experimental Verification. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.1	5
108	Characteristic Analysis of Grid-Connected PM Wind Power Generators based on Transfer Relations and Performance Evaluation. IEEE Transactions on Energy Conversion, 2013, 28, 969-978.	3.7	4

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109	Effects of Mechanical Resonance on Vibrations of Mechanical Systems With Permanent Magnet Machines. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	4
110	Design and characteristics analysis of linear oscillatory actuator with ferrite permanent magnet for refrigerator compressor. Journal of Applied Physics, 2015, 117, .	1.1	4
111	Comparison of Characteristics of Double-Sided Permanent-Magnet Synchronous Motor/Generator According to Magnetization Patterns for Flywheel Energy Storage System Using an Analytical Method. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	4
112	Optimal design and torque analysis considering eddy-current reduction of axial-flux permanent magnet couplings with Halbach array based on 3D-FEM. , 2016, , .		4
113	Torque characteristic analysis and measurement of axial flux-type non-contact permanent magnet device with Halbach array based on 3D analytical method. AIP Advances, 2017, 7, 056647.	0.6	4
114	Design and Analysis of the Coaxial Magnetic Gear Considering the Electromagnetic Performance and Mechanical Stress. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.1	4
115	Detailed analytical modeling for electromagnetic performance in actively shielded superconducting machines. AIP Advances, 2021, 11, .	0.6	4
116	Electromagnetic Analysis and Experimental Study to Optimize Force Characteristics of Permanent Magnet Synchronous Generator for Wave Energy Converter Using Subdomain Method. Processes, 2021, 9, 1825.	1.3	4
117	Characteristic Analysis and Experimental Verification of Electromagnetic and Vibration/Noise Aspects of Fractional-Slot Concentrated Winding IPMSMs of e-Bike. Energies, 2022, 15, 238.	1.6	4
118	Design and analysis of thrust active magnetic bearing. Journal of Applied Physics, 2008, 103, 07F122.	1.1	3
119	Aanalytical calculation of rotor losses in high-speed permanent magnet synchronous motor at different load conditions. Journal of Applied Physics, 2008, 103, 07F129.	1.1	3
120	Armature reaction field and inductance calculations for a permanent magnet linear synchronous machine based on subdomain model. , 2016, , .		3
121	Influence of Lateral-Impact Force on Electropermanent Magnet Suspension Conveyor With Inherent Guidance Force. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	3
122	Parametric analysis and optimized torque characteristics of a coaxial magnetic gear based on the subdomain analytical model. AIP Advances, 2017, 7, .	0.6	3
123	Experiments and Design Criteria for a High-Speed Permanent Magnet Synchronous Generator With Magnetic Bearing Considering Mechanical Aspects. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.1	3
124	Core-Loss Analysis of Linear Magnetic Gears Using the Analytical Method. Energies, 2021, 14, 2905.	1.6	3
125	Design of the High-Speed PMSG with Two Different Shaft Material Considering Overhang Effect and Mechanical Characteristics. Applied Sciences (Switzerland), 2021, 11, 7670.	1.3	3
126	Characteristic Analysis of a 2 kW High Speed Permanent Magnet Synchronous Generator Using the Equivalent Circuit Method. , 2007, , .		3

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127	Experimental Works and Power Loss Calculations of Surface-Mounted Permanent Magnet Machines. Journal of Magnetics, 2011, 16, 64-70.	0.2	3
128	Vector Control for Wave Power Generation System using Permanent Magnet Linear Synchronous Generator. Journal of the Korean Society for Marine Environment & Energy, 2016, 19, 120-128.	0.1	3
129	Thrust Analysis and Experiments on Low-Speed Single-Sided Linear Induction Motor. Journal of Electrical Engineering and Technology, 2017, 12, 230-235.	1.2	3
130	Design and Analysis Considering Magnet Usage of Permanent Magnet Synchronous Generator Using Analytical Method. Electronics (Switzerland), 2022, 11, 205.	1.8	3
131	Development of high-speed brushless DC motor for turbo-compressor. , 2005, , .		2
132	Experimental verification and analytical approach to influence stator skew on electromagnetic performance of permanent magnet generators with multipole rotor. Journal of Applied Physics, 2009, 105, 07A327.	1.1	2
133	General vibration characteristics for stators of electric machines. , 2013, , .		2
134	Design and analysis of a linear oscillatory single-phase permanent magnet generator for free-piston stirling engine systems. , 2016, , .		2
135	Experimental verification and analytical calculation of unbalanced magnetic force in permanent magnet machines. AIP Advances, 2017, 7, 056652.	0.6	2
136	Characteristic Analysis and Experimental Verification for a Double-Sided Permanent Magnet Linear Synchronous Generator According to Magnetization Array. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-4.	1.1	2
137	Low-Uncertainty Equality Between the Voltage-Dividing and Resistance Ratio of a DC Resistive High Voltage Divider. Journal of Electrical Engineering and Technology, 2019, 14, 1789-1795.	1.2	2
138	Electromagnetic Analysis of Linear Magnetic Gears Based on the Characteristics of Their Flux-Modulation Poles. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.1	2
139	Quasi-3D electromagnetic analysis and experimental verification of multi-pole magnetization BLDC motor. AIP Advances, 2020, 10, .	0.6	2
140	Electromagnetic Performance Analysis and Experimental Verification Considering the End Effect of Linear Magnetic Gears Using Subdomain-Based Analytical Method. IEEE Transactions on Magnetics, 2021, 57, 1-5.	1.2	2
141	Design of high-speed permanent magnet synchronous machines considering thermal demagnetization and mechanical characteristic of permanent magnet. AIP Advances, 2021, 11, 025129.	0.6	2
142	Iron Loss Analysis of a Concentrated Winding Type Interior Permanent Magnet Synchronous Motor with Single and Dual Layer Magnet Shape. Machines, 2021, 9, 74.	1.2	2
143	Comparative Study of Armature Reaction Field Analysis for Tubular Linear Machine with Axially Magnetized Single-sided and Double-sided Permanent Magnet Based on Analytical Field Calculations. Journal of Magnetics, 2015, 20, 79-85.	0.2	2
144	Eddy Current Loss Analysis in Radial Flux Type Synchronous Permanent Magnet Coupling using Space Harmonic Methods. Transactions of the Korean Institute of Electrical Engineers, 2014, 63, 1377-1383.	0.1	2

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145	Eddy-Current Loss Analysis in Rotor of Surface-Mounted Permanent Magnet Machines Using Analytical Method. Transactions of the Korean Institute of Electrical Engineers, 2012, 61, 1115-1122.	0.1	2
146	A Comparative Study on the Exterior Rotor BLDC Motor According to the Rotor Permanent Magnet Shape. Transactions of the Korean Institute of Electrical Engineers, 2014, 63, 237-244.	0.1	2
147	Performance Characteristics of the Rotor Conductor of an IE4 Class Induction Motor With Varying Al-Cu Ratio. IEEE Transactions on Magnetics, 2022, 58, 1-6.	1.2	2
148	Magnetic field computation of axial flux permanent magnet machines with Halbach and axially magnetized rotor using quasi-3-D analysis modeling. , 2010, , .		1
149	Analysis on electromagnetic vibration source permanent magnet synchronous motor for compressor of electric vehicles. , 2012, , .		1
150	Stator and rotor shape optimum design of brushless permanent magnet motor for automotive cooling device. , 2012, , .		1
151	Analysis of eddy current losses in cylindrical linear oscillatory actuator with Halbach permanent magnet array mover. Journal of Applied Physics, 2012, 111, 07B547.	1.1	1
152	Influence of AC-DC-DC converter on radial/axial flux permanent magnet wind power generators with mechanical energy storage system. , 2013, , .		1
153	Analysis of force characteristic of a linear induction motor considering secondary overhang effect. , 2015, , .		1
154	Analysis and control of electromagnetic coupling effect of levitation and guidance systems for semi-high-speed Maglev train considering current direction. , 2016, , .		1
155	Comparative study and experiment of a double-sided permanent magnet linear synchronous generator according to magnetization pattern. AIP Advances, 2017, 7, 056674.	0.6	1
156	Eddy current loss in double-sided cored slotless type permanent magnet linear synchronous generator using analytical method. AIP Advances, 2017, 7, .	0.6	1
157	Magnetic Field Analysis of Permanent Magnet Synchronous Motor Using Analytical Method According to Rotor Structure. , 2018, , .		1
158	Experimental and Comparative Study of Rotor Vibrations of Permanent Magnet Machines with Two Different Fractional Pole/Slot Combinations. Applied Sciences (Switzerland), 2020, 10, 8792.	1.3	1
159	Experimental verification and analysis of temperature characteristics of induction generator considering stator loss distribution. AIP Advances, 2020, 10, 015139.	0.6	1
160	Analytical and experimental study for characteristic analysis of permanent magnet linear synchronous machines with horizontally magnetized PMs. AIP Advances, 2020, 10, 015049.	0.6	1
161	Experimental and comparative study of mechanical and electromagnetic aspects of a high-speed permanent magnetic motor with two different magnetic materials. AIP Advances, 2020, 10, .	0.6	1
162	Electro-Mechanical Characteristics Analysis and Experimental Study of PMSM According to Rotor Eccentricity. IEEE Transactions on Magnetics, 2022, 58, 1-5.	1.2	1

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