Do-Kwan Hong

List of Publications by Year in Descending Order

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

56 papers	751 citations	13 h-index	26 g-index
59 ext. papers	923 ext. citations	1.8 avg, IF	4 L-index

#	Paper	IF	Citations
56	Rotor Design, Analysis and Experimental Validation of a High-Speed Permanent Magnet Synchronous Motor for Electric Turbocharger. *IEEE Access*, **2022**, 10, 21955-21969	3.5	3
55	Electrical and Mechanical Characteristics of a High-Speed Motor for Electric Turbochargers in Relation to Eccentricity. *Energies*, **2021**, 14, 3340	3.1	2
54	Magnetic–Mechanical Performance Analysis and Experimental Validation of Noncontact Coaxial Magnetic Gear for a Contra-Rotating Propeller in an Electric Outboard. *IEEE Transactions on Magnetics*, **2021**, 57, 1-5	2	1
53	Performance analysis of magnetic gear with Halbach array for high power and high speed. *International Journal of Applied Electromagnetics and Mechanics*, **2020**, 64, 959-967	0.4	
52	Design and Characteristics Analysis of Coaxial Magnetic Gear for Contra-Rotating Propeller in Yacht. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 7250-7259	8.9	7
51	Multiphysics analysis of a high speed PMSM for electric turbo charger. *International Journal of Applied Electromagnetics and Mechanics*, **2019**, 59, 835-843	0.4	4
50	Multiphysics analysis of a permanent magnet synchronous motor for articulated robot applications. *International Journal of Applied Electromagnetics and Mechanics*, **2019**, 59, 881-889	0.4	1
49	Design, Analysis, and Experimental Validation of a Permanent Magnet Synchronous Motor for Articulated Robot Applications. *IEEE Transactions on Magnetics*, **2018**, 54, 1-4	2	23
48	Design and Experimental Validation of a High-Speed Electric Turbocharger Motor Considering Variation of the ${boldsymbol{L}}/{boldsymbol{D}}$ Ratio. *IEEE Transactions on Magnetics*, **2018**, 54, 1-4	2	5
47	Design of a High-Performance 16-Slot 8-Pole Electromagnetic Shock Absorber Using a Novel Permanent Magnet Structure. *Energies*, **2018**, 11, 3352	3.1	7
46	Electric-mechanical performance analysis of high speed motor for electric turbo charger. *International Journal of Applied Electromagnetics and Mechanics*, **2018**, 57, 125-133	0.4	6
45	Effects of the pole-slot combination on the PMSM of an integrated motor propulsor for an unmanned underwater vehicle considering its electric performance, noise and vibration. *International Journal of Applied Electromagnetics and Mechanics*, **2016**, 52, 1689-1695	0.4	7
44	Development of thrust force 6 kN class transverse flux linear motor with synchronous control for direct drive applications. *International Journal of Precision Engineering and Manufacturing*, **2015**, 16, 191-196	1.7	4
43	Fractional Slot Concentrated Winding PMSM With Consequent Pole Rotor for a Low-Speed Direct Drive: Reduction of Rare Earth Permanent Magnet. *IEEE Transactions on Energy Conversion*, **2015**, 30, 103-109	5.4	100
42	Development and experimental performance validation of torsional viscosity damper for crank shaft system of transporting machine. *International Journal of Precision Engineering and Manufacturing*, **2015**, 16, 1591-1597	1.7	2
41	Comparison of slot and slotless type stator cores of a super high speed motor-generator for microturbine generators. *International Journal of Applied Electromagnetics and Mechanics*, **2014**, 45, 249-256	0.4	3
40	The investigation on a thrust force 8,000 N class transverse flux linear motor. *International Journal of Applied Electromagnetics and Mechanics*, **2014**, 45, 279-286	0.4	4

39	Unbalance response analysis and experimental validation of an ultra high speed motor-generator for microturbine generators considering balancing. *Sensors*, **2014**, 14, 16117-27	3.8	6
38	Development of a super high speed motor-generator and controller. *Journal of Applied Physics*, **2014**, 115, 17E705	2.5	2
37	Development of an ultra high speed permanent magnet synchronous motor. *International Journal of Precision Engineering and Manufacturing*, **2013**, 14, 493-499	1.7	16
36	Performance verification of a high speed motor-generator for a microturbine generator. *International Journal of Precision Engineering and Manufacturing*, **2013**, 14, 1237-1244	1.7	4
35	Design and experimental validation of doubly salient permanent magnet linear synchronous motor for precision position control. *Mechatronics*, **2013**, 23, 172-181	3	25
34	An Analytical Approach for a High Speed and High Efficiency Induction Motor Considering Magnetic and Mechanical Problems. *IEEE Transactions on Magnetics*, **2013**, 49, 2319-2322	2	11
33	Development of a Large Diameter Motor for Turret Application. *IEEE Transactions on Magnetics*, **2013**, 49, 2327-2330	2	2
32	Investigations on a Super High Speed Motor-Generator for Microturbine Applications Using Amorphous Core. *IEEE Transactions on Magnetics*, **2013**, 49, 4072-4075	2	20
31	Development of a High Speed Induction Motor for Spindle Systems. *IEEE Transactions on Magnetics*, **2013**, 49, 4088-4091	2	11
30	Rotordynamic analysis and experimental validation of a high speed induction motor made by copper die casting process. *Journal of Mechanical Science and Technology*, **2013**, 27, 3035-3041	1.6	4
29	Development of doubly salient permanent magnet linear synchronous motor for general-purpose automation applications. *International Journal of Precision Engineering and Manufacturing*, **2013**, 14, 2075-2080	1.7	9
28	Water-Cooled Direct Drive Permanent Magnet Motor Design in Consideration of its Efficiency and Structural Strength. *Journal of Magnetics*, **2013**, 18, 125-129	1.9	2
27	Permanent Magnet Motor Design for Turrets with Large Diameters. *Journal of Magnetics*, **2013**, 18, 460-465	1.9	1
26	Design Considerations and Validation of Permanent Magnet Vernier Machine with Consequent Pole Rotor for Low Speed Servo Applications. *Journal of Electrical Engineering and Technology*, **2013**, 8, 1146-1151	1.4	8
25	Performance Comparison of Longitudinal Flux and Transverse Flux Permanent Magnet Machines for Turret Applications With Large Diameter. *IEEE Transactions on Magnetics*, **2012**, 48, 915-918	2	16
24	Ultra High Speed Motor Supported by Air Foil Bearings for Air Blower Cooling Fuel Cells. *IEEE Transactions on Magnetics*, **2012**, 48, 871-874	2	72
23	Investigating a Direct-Drive PM Type Synchronous Machine for Turret Application Using Optimization. *IEEE Transactions on Magnetics*, **2012**, 48, 4491-4494	2	7
22	Fractional Slot Concentrated Winding Permanent Magnet Synchronous Machine With Consequent Pole Rotor for Low Speed Direct Drive. *IEEE Transactions on Magnetics*, **2012**, 48, 2965-2968	2	71

21	Analysis of high speed induction motor for spindle made by copper die casting process. *International Journal of Precision Engineering and Manufacturing*, **2012**, 13, 2251-2257	1.7	8
20	Optimum design of an outer rotor and spoke type direct-drive machine for turret applications with large diameter. *International Journal of Applied Electromagnetics and Mechanics*, **2012**, 39, 981-988	0.4	2
19	Dynamic simulation and experimental verification of flux reversal linear synchronous motor. *International Journal of Precision Engineering and Manufacturing*, **2012**, 13, 175-181	1.7	4
18	Unbalanced Magnetic Force Calculation for Assembly Jig Design. *IEEE Transactions on Magnetics*, **2012**, 48, 4224-4227	2	2
17	VARIATION OF ELECTRIC PROPERTIES BETWEEN SURFACE PERMANENT MAGNET AND INTERIOR PERMANENT MAGNET MOTOR. *International Journal of Modern Physics Conference Series*, **2012**, 06, 109-114	0.7	1
16	A Single-Phase Brushless DC Motor With Improved High Efficiency for Water Cooling Pump Systems. *IEEE Transactions on Magnetics*, **2011**, 47, 4250-4253	2	10
15	Force Ripple and Magnetic Unbalance Reduction Design for Doubly Salient Permanent Magnet Linear Synchronous Motor. *IEEE Transactions on Magnetics*, **2011**, 47, 4207-4210	2	36
14	A Novel Design of Modular Three-Phase Permanent Magnet Vernier Machine With Consequent Pole Rotor. *IEEE Transactions on Magnetics*, **2011**, 47, 4215-4218	2	95
13	Development of flux reversal linear synchronous motor for precision position control. *International Journal of Precision Engineering and Manufacturing*, **2011**, 12, 443-450	1.7	11
12	The optimum design of a moving PM-type linear motor for resonance operating refrigerant compressor. *International Journal of Applied Electromagnetics and Mechanics*, **2010**, 33, 673-680	0.4	1
11	OPTIMUM DESIGN FOR IMPROVEMENT OF PM-TYPE LONGITUDINAL FLUX LINEAR MOTOR USING THE STATISTICAL METHODS. *International Journal of Modern Physics B*, **2010**, 24, 2821-2826	1.1	1
10	COMPARISON OF TRANSVERSE FLUX LINEAR MOTOR AND LONGITUDINAL FLUX LINEAR MOTOR FOR COOLER OF INFORMATION AND TELECOMMUNICATION. *International Journal of Modern Physics B*, **2010**, 24, 2815-2820	1.1	
9	Electromagnet weight reduction in a magnetic levitation system for contactless delivery applications. *Sensors*, **2010**, 10, 6718-29	3.8	6
8	Rotordynamics of 120 $thinspace$000 r/min 15 kW Ultra High Speed Motor. *IEEE Transactions on Magnetics*, **2009**, 45, 2831-2834	2	38
7	Optimum Design of Transverse Flux Linear Motor for Weight Reduction and Improvement Thrust Force Using Response Surface Methodology. *IEEE Transactions on Magnetics*, **2008**, 44, 4317-4320	2	43
6	Optimum design of electromagnet in magnetic levitation system for contactless delivery application using response surface methodology **2008**,		3
5	Application of fractional factorial design for improving performance of 60W transverse flux linear motor. *Journal of Applied Physics*, **2008**, 103, 07F120	2.5	3
4	Vibration Analysis of Shaft with Impeller for Resin Chock Mixing Machine. *Transactions of the Korean Society of Mechanical Engineers, A*, **2008**, 32, 970-977	1	

3	Optimum Design of TFLM With Constraints for Weight Reduction Using Characteristic Function. *IEEE Transactions on Magnetics*, **2007**, 43, 1613-1616	2	19
2	Variation of Phase Difference Between the Peak Value of Applied Current and the Maximum Displacement of Mover in Linear Actuator. *IEEE Transactions on Magnetics*, **2007**, 43, 2576-2578	2	1
1	THRUST FORCE OF TFLM AS A DIRECTION OF FRICTIONAL RESISTANCE. *International Journal of Modern Physics B*, **2006**, 20, 4469-4474	1.1	1