

# Dong-Kuk Lim

## List of Publications by Year in descending order

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38  
papers

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623734

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times ranked

460  
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#	ARTICLE	IF	CITATIONS
1	Optimal Design of an Interior Permanent Magnet Synchronous Motor by Using a New Surrogate-Assisted Multi-Objective Optimization. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	57
2	Optimal Design of an Axial Flux Permanent Magnet Synchronous Motor for the Electric Bicycle. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	38
3	A 2-D Finite-Element Analysis for a Permanent Magnet Synchronous Motor Taking an Overhang Effect Into Consideration. IEEE Transactions on Magnetics, 2013, 49, 4894-4899.	2.1	35
4	Magnetic Equivalent Circuit Model Considering the Overhang Structure of an Interior Permanent-Magnet Machine. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	35
5	Analysis and Design of Interior Permanent Magnet Synchronous Motor Using a Sequential-Stage Magnetic Equivalent Circuit. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	34
6	Analysis and Design of a Multi-Layered and Multi-Segmented Interior Permanent Magnet Motor by Using an Analytic Method. IEEE Transactions on Magnetics, 2014, 50, 1-8.	2.1	33
7	Cogging Torque Minimization of a Dual-Type Axial-Flux Permanent Magnet Motor Using a Novel Optimization Algorithm. IEEE Transactions on Magnetics, 2013, 49, 5106-5111.	2.1	28
8	A Novel Multimodal Optimization Algorithm for the Design of Electromagnetic Machines. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	25
9	A Novel Surrogate-Assisted Multi-Objective Optimization Algorithm for an Electromagnetic Machine Design. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	24
10	Characteristic Analysis and Design of a Thomson Coil Actuator Using an Analytic Method and a Numerical Method. IEEE Transactions on Magnetics, 2013, 49, 5749-5755.	2.1	23
11	A Novel Sequential-Stage Optimization Strategy for an Interior Permanent Magnet Synchronous Generator Design. IEEE Transactions on Industrial Electronics, 2018, 65, 1781-1790.	7.9	22
12	Optimal Design of IPMSM for Fuel Cell Electric Vehicles Using Autotuning Elliptical Niching Genetic Algorithm. IEEE Access, 2020, 8, 117405-117412.	4.2	22
13	Magnetic Equivalent Circuit Model Considering Overhang Structure of a Surface-Mounted Permanent-Magnet Motor. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	20
14	Cogging Torque Optimization of Axial Flux Permanent Magnet Motor. IEEE Transactions on Magnetics, 2013, 49, 2189-2192.	2.1	17
15	Optimal Design of PMA-SynRM for Electric Vehicles Exploiting Adaptive-Sampling Kriging Algorithm. IEEE Access, 2021, 9, 41174-41183.	4.2	17
16	Analysis and Design of a Delta-Type Interior Permanent Magnet Synchronous Generator by Using an Analytic Method. IEEE Access, 2019, 7, 85139-85145.	4.2	14
17	High Step-Up Interleaved Converter Mixed With Magnetic Coupling and Voltage Lift. IEEE Access, 2020, 8, 72768-72780.	4.2	14
18	Optimal Design of Outer-Rotor Surface Mounted Permanent Magnet Synchronous Motor for Cogging Torque Reduction Using Territory Particle Swarm Optimization. Journal of Electrical Engineering and Technology, 2021, 16, 429-436.	2.0	14

#	ARTICLE	IF	CITATIONS
19	Minimization of a Cogging Torque for an Interior Permanent Magnet Synchronous Machine using a Novel Hybrid Optimization Algorithm. <i>Journal of Electrical Engineering and Technology</i> , 2014, 9, 859-865.	2.0	11
20	Optimal Design of IPMSM for FCEV Using Novel Immune Algorithm Combined with Steepest Descent Method. <i>Energies</i> , 2020, 13, 3395.	3.1	9
21	A New Multimodal Optimization Algorithm for the Design of In-Wheel Motors. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-4.	2.1	7
22	Optimal Design of a Synchronous Reluctance Motor Using a Genetic Topology Algorithm. <i>Processes</i> , 2021, 9, 1778.	2.8	7
23	Performance Enhancement of the IPMSM for HEV Applications Using Grain-Oriented Electrical Steel and Design Optimization. <i>IEEE Access</i> , 2022, 10, 46599-46607.	4.2	6
24	Tornado Optimization With Pattern Search Method for Optimal Design of IPMSM. <i>IEEE Transactions on Magnetics</i> , 2022, 58, 1-4.	2.1	5
25	Optimal Design of IPMSM for Electric Bus Using a Sub-Domain Algorithm with Dynamic Area Sampling. <i>Journal of Electrical Engineering and Technology</i> , 2021, 16, 3169-3178.	2.0	5
26	Novel Method of Deriving Torque and Speed Curve of the Permanent Magnet Synchronous Motor Using Initial State Finite Element Analysis. <i>IEEE Transactions on Magnetics</i> , 2022, 58, 1-6.	2.1	5
27	A New Surrogate-assisted Robust Multi-objective Optimization Algorithm for an Electrical Machine Design. <i>Journal of Electrical Engineering and Technology</i> , 2019, 14, 1247-1254.	2.0	4
28	Analytical prediction of cogging torque for interior permanent magnet synchronous motors. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2017, 55, 625-635.	0.6	3
29	Optimized Design of Permanent Magnet Assisted Synchronous Reluctance Motor Using Oriented Auto-tuning Niching Algorithm. <i>Journal of Electrical Engineering and Technology</i> , 2021, 16, 1495-1503.	2.0	3
30	Novel Strategy for Deriving Torque and Speed Curve of an Electric Bicycle Traction Motor Using Initial Step Analysis. <i>Journal of Electrical Engineering and Technology</i> , 2022, 17, 1667-1678.	2.0	3
31	Rotor design strategy of interior permanent magnet synchronous motor for fuel cell electric vehicle. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2012, 40, 51-66.	0.6	2
32	Correction to "Magnetic Equivalent Circuit Model Considering Overhang Structure of a Surface-Mounted Permanent-Magnet Motor" [Mar 15 Art. ID 8201004]. <i>IEEE Transactions on Magnetics</i> , 2016, 52, 1-1.	2.1	2
33	Optimal Design of IPMSM for EV Using Subdivided Kriging Multi-Objective Optimization. <i>Processes</i> , 2021, 9, 1490.	2.8	2
34	A new robust surrogate-assisted multi-objective optimization algorithm for an IPMSM design. , 2016, , .		1
35	Improved Immune Algorithm Combined with Steepest Descent Method for Optimal Design of IPMSM for FCEV Traction Motor. <i>Energies</i> , 2021, 14, 3904.	3.1	1
36	Multi-Variable Multi-Objective Optimization Algorithm for Optimal Design of PMa-SynRM for Electric Bicycle Traction Motor. <i>Processes</i> , 2021, 9, 1901.	2.8	1

#	ARTICLE	IF	CITATIONS
37	Topology Optimization Combined with a Parametric Algorithm for Industrial Synchronous Reluctance Motor Design. Processes, 2022, 10, 746.	2.8	1
38	Analysis and modeling of magnetic characteristics in surface-mounted permanent-magnet machines with rotor overhang. , 2013, , .		0