

Dong-Hun Kim

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Robust Optimization Utilizing the Second-Order Design Sensitivity Information. IEEE Transactions on Magnetics, 2010, 46, 3117-3120.	2.1	59
2	The Implications of the Use of Composite Materials in Electromagnetic Device Topology and Shape Optimization. IEEE Transactions on Magnetics, 2009, 45, 1154-1157.	2.1	55
3	A novel scheme for material updating in source distribution optimization of magnetic devices using sensitivity analysis. IEEE Transactions on Magnetics, 2005, 41, 1752-1755.	2.1	35
4	Efficient force calculations based on continuum sensitivity analysis. IEEE Transactions on Magnetics, 2005, 41, 1404-1407.	2.1	32
5	Wide Load Range Efficiency Improvement of a High-Power-Density Bidirectional DC-DC Converter Using an MR Fluid-Gap Inductor. IEEE Transactions on Industry Applications, 2015, 51, 3216-3226.	4.9	27
6	Active damping control of linear hybrid stepping motor for cogging force compensation. IEEE Transactions on Magnetics, 2006, 42, 329-334.	2.1	19
7	Efficient Global and Local Force Calculations Based on Continuum Sensitivity Analysis. IEEE Transactions on Magnetics, 2007, 43, 1177-1180.	2.1	19
8	Smooth Boundary Topology Optimization for Electrostatic Problems Through the Combination of Shape and Topological Design Sensitivities. IEEE Transactions on Magnetics, 2008, 44, 1002-1005.	2.1	19
9	Magnetic Dipole Modeling Combined With Material Sensitivity Analysis for Solving an Inverse Problem of Thin Ferromagnetic Sheet. IEEE Transactions on Magnetics, 2009, 45, 4169-4172.	2.1	14
10	Efficient Methodology for Optimizing Degaussing Coil Currents in Ships Utilizing Magnetomotive Force Sensitivity Information. IEEE Transactions on Magnetics, 2012, 48, 419-422.	2.1	14
11	Composite First-Order Reliability Method for Efficient Reliability-Based Optimization of Electromagnetic Design Problems. IEEE Transactions on Magnetics, 2014, 50, 681-684.	2.1	14
12	Implementation of Material Sensitivity Analysis for Determining Unknown Remanent Magnetization of a Ferromagnetic Thin Shell. IEEE Transactions on Magnetics, 2009, 45, 1478-1481.	2.1	13
13	Characteristic of a Variable Inductor Using Magnetorheological Fluid for Efficient Power Conversion. IEEE Transactions on Magnetics, 2013, 49, 1901-1904.	2.1	13
14	Assessment of the Sensitivity to Field Localization of Various Parameters During Transcranial Magnetic Stimulation. IEEE Transactions on Magnetics, 2007, 43, 4016-4022.	2.1	12
15	A Practical Approach to Robust Design of a RFID Triple-Band PIFA Structure. IEEE Transactions on Magnetics, 2010, 46, 3333-3336.	2.1	12
16	Accurate Prediction of Unknown Corrosion Currents Distributed on the Hull of a Naval Ship Utilizing Material Sensitivity Analysis. IEEE Transactions on Magnetics, 2011, 47, 1282-1285.	2.1	11
17	Applying Reliability Assessment Methods to Superconducting Magnetic Energy Storage System (SMES) Designs. IEEE Transactions on Magnetics, 2011, 47, 4623-4628.	2.1	10
18	Optimization of Degaussing Coil Currents for Magnetic Silencing of a Ship Taking the Ferromagnetic Hull Effect Into Account. IEEE Transactions on Applied Superconductivity, 2012, 22, 4904504-4904504.	1.7	10

#	ARTICLE	IF	CITATIONS
19	Optimal Design of a RFID Tag Antenna Based on Plane-Wave Incidence. IEEE Transactions on Magnetics, 2012, 48, 795-798.	2.1	10
20	A Single-Loop Strategy for Efficient Reliability-Based Electromagnetic Design Optimization. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	8
21	An Efficient Serial-Loop Strategy for Reliability-Based Robust Optimization of Electromagnetic Design Problems. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	8
22	Reliability-Based Design Optimization of a Permanent Magnet Motor Under Manufacturing Tolerance and Temperature Fluctuation. IEEE Transactions on Magnetics, 2021, 57, 1-4.	2.1	8
23	Assessment of Statistical Moments of a Performance Function for Robust Design of Electromagnetic Devices. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	7
24	Enriched Serial-Loop Optimization Method for Efficient Reliability-Based Electromagnetic Designs. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	7
25	Sampling-Based Sensitivity Approach to Electromagnetic Designs Utilizing Surrogate Models Combined with a Local Window. Journal of Magnetics, 2013, 18, 74-79.	0.4	7
26	A Sensitivity Approach to Force Calculation in Electrostatic MEMS Devices. IEEE Transactions on Magnetics, 2008, 44, 1610-1613.	2.1	6
27	Topology Optimization of Dielectric Resonator in 3-D Waveguide Structure Considering Higher Mode Incidence. IEEE Transactions on Magnetics, 2012, 48, 559-562.	2.1	6
28	Initial Position Estimation for Closed-Loop Linear Hybrid Stepping Motor Drives Using DC Excitation. IEEE Transactions on Magnetics, 2006, 42, 2071-2076.	2.1	5
29	Design Optimization of Waveguide Filters Using Continuum Design Sensitivity Analysis. IEEE Transactions on Magnetics, 2010, 46, 2771-2774.	2.1	5
30	Efficient strategies for reliability-based design optimisation of a superconducting magnetic energy storage system based on reliability index approach. IET Science, Measurement and Technology, 2013, 7, 280-286.	1.6	5
31	Hybrid Reliability Analysis Method for Electromagnetic Design Problems With Non-Gaussian Probabilistic Parameters. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	5
32	A Comparative Study on Probabilistic Optimization Methods for Electromagnetic Design. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	4
33	Enriched Performance Measure Approach for Efficient Reliability-Based Electromagnetic Designs. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	4
34	Optimization of a SMES Magnet in the Presence of Uncertainty Utilizing Sampling-based Reliability Analysis. Journal of Magnetics, 2014, 19, 78-83.	0.4	4
35	Sequential Design Method for Geometric Optimization of an Electrothermal Microactuator Based on Dynamic Kriging Models. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	3
36	Analysis of EMI Reduction Effect of a Magnetorheological Fluid-Gap Inductor in a DC/DC Converter. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	3

#	ARTICLE	IF	CITATIONS
37	Sensitivity Analysis of Water Tree and Input Pulse Parameters for Time-Domain Reflectometry of Power Cables Using Taguchi Method. Journal of Electrical Engineering and Technology, 2021, 16, 633-642.	2.0	3
38	Efficient Global and Local Force Calculations Based on Continuum Sensitivity Analysis. , 0, , .		1
39	Program Architecture for Realizing Design Optimization of a BLDC Motor. , 2007, , .		1
40	Fast solution of inverse problems in the RF domain using topological sensitivity and hybrid-ON/OFF method. , 2010, , .		1
41	A novel phase-shift full-bridge DC-DC converter using Magneto-rheological fluid gap inductor. , 2013, , .		1
42	Simultaneous Design Approach to Transient Electromagnetic and Thermal Problems Based on a Black-Box Modeling Concept. IEEE Transactions on Magnetics, 2014, 50, 301-304.	2.1	1
43	An Extensive Performance Study of a MRF-Gap Inductor to Enhance Efficiency of Power Conversion System. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.7	1
44	MPP-Based Dimension Reduction Method for Accurate Prediction of the Probability of Failure of a Performance Function. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	1
45	Cervical Radiculopathy Caused by Spinal Epidural Arteriovenous Fistula (SEDAVF) Without Intradural Drainage: A Case Report and Literature Review. Korean Journal of Neurotrauma, 2022, 18, 145.	0.6	1
46	High performance control of $\pi/4$ -multiple-pitched linear hybrid stepping motor with ripple force compensator. , 2005, , .		0
47	Assessment of the Performance and Sensitivity to Different Head Model Data of a New Coil Design for Field Localization during TMS. , 0, , .		0
48	A novel self-start circuit and CBS for engine-generator system. , 2008, , .		0
49	Generalized continuum sensitivity formula for shape optimization of high-frequency devices in frequency domain. , 2010, , .		0
50	Accurate prediction of unknown corrosion currents distributed on the hull of a naval ship utilizing material sensitivity analysis. , 2010, , .		0
51	Fully coupled finite element modeling for accurate prediction of breakdown voltage in air at atmospheric pressure. , 2010, , .		0
52	Assessment of Air-Gap Flux Variation to Short-Circuit Current of Generator Excitation Windings. , 2007, , .		0