Gwan-Soo Park

List of Publications by Year
in descending order

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56 papers	538 citations	759055 12 h-index	677027 22 g-index
56 all docs	56 docs citations	56 times ranked	546 citing authors

#	Article	IF	Citations
1	Analysis of the Velocity-Induced Eddy Current in MFL Type NDT. IEEE Transactions on Magnetics, 2004, 40, 663-666.	1.2	62
2	A Real-Time Bi-Adaptive Controller-Based Energy Management System for Batteryâ€“Supercapacitor Hybrid Electric Vehicles. Energies, 2019, 12, 4662.	1.6	44
3	A Study on the Estimation of the Shapes of Axially Oriented Cracks in CMFL Type NDT System. IEEE Transactions on Magnetics, 2014, 50, 109-112.	1.2	36
4	A 60 Hz uniform electromagnetic field promotes human cell proliferation by decreasing intracellular reactive oxygen species levels. PLoS ONE, 2018, 13, e0199753.	1.1	35
5	Online Remaining Useful Life Prediction for Lithium-Ion Batteries Using Partial Discharge Data Features. Energies, 2019, 12, 4366.	1.6	33
6	Shape Optimization of a Large-Scale BLDC Motor Using an Adaptive RSM Utilizing Design Sensitivity Analysis. IEEE Transactions on Magnetics, 2007, 43, 1653-1656.	1.2	30
7	New Design of the Magnetic Fluid Linear Pump to Reduce the Discontinuities of the Pumping Forces. IEEE Transactions on Magnetics, 2004, 40, 916-919.	1.2	29
8	Control of Output and Circulating Current of Modular Multilevel Converter Using a Sliding Mode Approach. Energies, 2019, 12, 4084.	1.6	28
9	A Design of Rotor Bar for Improving Starting Torque by Analyzing Rotor Resistance and Reactance in Squirrel Cage Induction Motor. IEEE Transactions on Magnetics, 2018, 54, 1-4.	1.2	27
10	Determination Scheme of Stator Parameters for Making Rotating Fields Circular in a Single-Phase Induction Motor. IEEE Transactions on Magnetics, 2020, 56, 1-5.	1.2	23
11	A New Sensitive Excitation Technique in Nondestructive Inspection for Underground Pipelines by Using Differential Coils. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	20
12	Determination Scheme for Accurate Defect Depth in Underground Pipeline Inspection by Using Magnetic Flux Leakage Sensors. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	15
13	A research on the pumping forces in the magnetic fluid linear pump. IEEE Transactions on Magnetics, 2005, 41, 1580-1583.	1.2	13
14	Development of the caliper system for a geometry pig based on magnetic field analysis. Journal of Mechanical Science and Technology, 2003, 17, 1835-1843.	0.4	12
15	A Design of Rotor Bar Inclination in Squirrel Cage Induction Motor. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	12
16	Design of Cryogenic Induction Motor Submerged in Liquefied Natural Gas. IEEE Transactions on Magnetics, 2018, 54, 1-4.	1.2	12
17	High Frequency Transformerâ€™s Parasitic Capacitance Minimization for Photovoltaic (PV) High-Frequency Link-Based Medium Voltage (MV) Inverter. Electronics (Switzerland), 2018, 7, 142.	1.8	12
18	A New Design of MFL Sensors for Self-Driving NDT Robot to Avoid Getting Stuck in Curved Underground Pipelines. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	10

#	Article	IF	Citations
19	Development of a magnetic inductance tomography system. IEEE Transactions on Magnetics, 2005, 41, 1932-1935.	1.2	8
20	Analysis of the Resonance Characteristics by a Variation of Coil Distance in Magnetic Resonant Wireless Power Transmission. IEEE Transactions on Magnetics, 2018, 54, 1-4.	1.2	7
21	Efficient Deperming Protocols Based on the Magnetic Properties in Demagnetization Process. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	6
22	Magnetic Hysteresis Analysis of a Pipeline Re-Inspection by Using Preisach Model. IEEE Transactions on Magnetics, 2020, 56, 1-4.	1.2	6
23	Analysis of a Defect Signal Deformations Induced by Eddy Current in RFECT System for Pipeline Inspection. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	5
24	Comparison of Magnetic Levitation Systems Using Ring-Shaped Permanent Magnets. IEEE Transactions on Magnetics, 2019, 55, 1-4.	1.2	5
25	A Neural Network-Based Model Reference Control Architecture for Oscillation Damping in Interconnected Power System. Energies, 2019, 12, 3653.	1.6	5
26	Detection method of cracks by using magnetic fields in underground pipeline. , 2013, , .		4
27	A study on the skin effect and eddy current distributions in conductive media. , 2017, , .		4
28	Demagnetization Scheme for Avoiding Magnetic Mines Under the Exposure of Earth Magnetic Field. IEEE Transactions on Magnetics, 2018, 54, 1-4.	1.2	4
29	Effects of V-skew on the cogging torque in permanent magnet synchronous motor. , 2013, , .		3
30	Defect estimation of a crack in underground pipelines by CMFL type NDT system. , 2013, , .		3
31	A study on the design of induction motor in low speed urban electric vehicle. , 2016, , .		3
32	Eddy current effects on the high density magnetic recording system. IEEE Transactions on Magnetics, 2006, 42, 775-778.	1.2	2
33	Dynamics of Magnetic Particles in a Magnetic Separation System Using the Finite Element Field Model and Level Set Method. IEEE Transactions on Applied Superconductivity, 2010, 20, 953-956.	1.1	2
34	Analysis of RFECT system based on the eddy current distributions in pipeline inspection. , 2016, , .		2
35	Development of RFECT system for in-line inspection robot considering extendibility of receiving sensors based on parallel lock-in amplifier. International Journal of Precision Engineering and Manufacturing, 2017, 18, 145-153.	1.1	2
36	Design of Ferrite Core for the Improvement of Power Efficiency in Induction Range. IEEE Transactions on Magnetics, 2019, 55, 1-4.	1.2	2

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37	Resistance Variations in High-Frequency Inductors Considering Induced Fields Among Conductors. IEEE Transactions on Magnetics, 2021, 57, 1-5.	1.2	2
38	Comparison of Electromagnetic Characteristics of Single-Phase Induction Motor between Balanced and Unbalanced Operation under Different Loads. Energies, 2021, 14, 919.	1.6	2
39	Novel Deperming Protocols to Reduce Demagnetizing Time and Improve the Performance for the Magnetic Silence of Warships. Energies, 2021, 14, 6295.	1.6	2
40	Effects of Electro-Magnetic Properties of Obstacles in Magnetic Resonant Wireless Power Transfer. Energies, 2021, 14, 7469.	1.6	2
41	Design of a very low temperature induction motor for liquid nitrogen gas pump. , 2013, , .		1
42	New algorithm for improvement of sizing accuracy of defect depth in MFL type nondestructive testing. , 2016, , .		1
43	Influence of Magnetic Interactions on the Demagnetization Scheme of Multiple Ferromagnetic Materials by Using Preisach Model. IEEE Transactions on Magnetics, 2019, 55, 1-4.	1.2	1
44	A Study on the Power Prediction of Induction Range Considering Current Distortion in Resonant Inverter. , 2021, , .		1
45	Optimization of Magnet Pole of Brushless DC Motor by Experimental Design Method. , 0, , .		0
46	Proposal of a Novel Pole Type Structures in Perpendicular MRAM for High Gb/Chip. IEEE Transactions on Magnetics, 2009, 45, 2417-2420.	1.2	0
47	Magnetic hysteresis modeling in perpendicular MRAM system for high Gb/Chip. , 2010, , .		0
48	Introduction and analysis of the MRAM with pole type system by using micromagnetic approach for high Gb/Chip. , 2010, , .		0
49	Analysis and measurement of the magnetophoretic display system by using bistable magnetic ball for extremely low power consumptions. , 2010, , .		0
50	A research on method to discriminate the fitness of phase coil arrangement in the permanent motor. , 2010, , .		0
51	A study on the efficient deperm protocol in hard magnetic material using Preisach model. , 2013, , .		0
52	A study on high torque motor designed for Uni wheel Personal Mobility considering sloping domestic geographical features. , 2016, , .		0
53	A study on the magnetic resonant wireless charging system for electrical vehicles. , 2016, , .		0
54	Effects of the induced magnetic field on the defect signals in RFECT system for pipeline inspection. , 2016, , .		0

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55	Research of optimally design novel pole type perpendicular MRAM for high capacity. , 2007, , .		0
56	Numerical Analysis of DC-Biased Eddy Current Sensor Considering Hysteresis Effects. IEEE Transactions on Magnetics, 2022, 58, 1-4.	1.2	0