

Gwan-Soo Park

List of Publications by Citations

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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.

44
papers

312
citations

10
h-index

16
g-index

56
ext. papers

435
ext. citations

2.2
avg, IF

3.79
L-index

#	Paper	IF	Citations
44	Analysis of the velocity-induced eddy current in MFL type NDT. <i>IEEE Transactions on Magnetics</i> , 2004 , 40, 663-666	2	46
43	A Study on the Estimation of the Shapes of Axially Oriented Cracks in CMFL Type NDT System. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 109-112	2	31
42	A Real-Time Bi-Adaptive Controller-Based Energy Management System for Battery-Supercapacitor Hybrid Electric Vehicles. <i>Energies</i> , 2019 , 12, 4662	3.1	23
41	New design of the magnetic fluid linear pump to reduce the discontinuities of the pumping forces. <i>IEEE Transactions on Magnetics</i> , 2004 , 40, 916-919	2	22
40	Shape Optimization of a Large-Scale BLDC Motor Using an Adaptive RSM Utilizing Design Sensitivity Analysis. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 1653-1656	2	21
39	A 60 Hz uniform electromagnetic field promotes human cell proliferation by decreasing intracellular reactive oxygen species levels. <i>PLoS ONE</i> , 2018 , 13, e0199753	3.7	18
38	Online Remaining Useful Life Prediction for Lithium-Ion Batteries Using Partial Discharge Data Features. <i>Energies</i> , 2019 , 12, 4366	3.1	16
37	Determination Scheme of Stator Parameters for Making Rotating Fields Circular in a Single-Phase Induction Motor. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-5	2	15
36	A New Sensitive Excitation Technique in Nondestructive Inspection for Underground Pipelines by Using Differential Coils. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	14
35	Control of Output and Circulating Current of Modular Multilevel Converter Using a Sliding Mode Approach. <i>Energies</i> , 2019 , 12, 4084	3.1	12
34	A research on the pumping forces in the magnetic fluid linear pump. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 1580-1583	2	9
33	Determination Scheme for Accurate Defect Depth in Underground Pipeline Inspection by Using Magnetic Flux Leakage Sensors. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	8
32	Development of the caliper system for a geometry pig based on magnetic field analysis. <i>Journal of Mechanical Science and Technology</i> , 2003 , 17, 1835-1843		8
31	A Design of Rotor Bar Inclination in Squirrel Cage Induction Motor. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	7
30	A Design of Rotor Bar for Improving Starting Torque by Analyzing Rotor Resistance and Reactance in Squirrel Cage Induction Motor. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-4	2	7
29	High Frequency Transformer Parasitic Capacitance Minimization for Photovoltaic (PV) High-Frequency Link-Based Medium Voltage (MV) Inverter. <i>Electronics (Switzerland)</i> , 2018 , 7, 142	2.6	7
28	Analysis of the Resonance Characteristics by a Variation of Coil Distance in Magnetic Resonant Wireless Power Transmission. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-4	2	5

27	Efficient Deperming Protocols Based on the Magnetic Properties in Demagnetization Process. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	5
26	Development of a magnetic inductance tomography system. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 1932-1935	2	5
25	A New Design of MFL Sensors for Self-Driving NDT Robot to Avoid Getting Stuck in Curved Underground Pipelines. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	4
24	Demagnetization Scheme for Avoiding Magnetic Mines Under the Exposure of Earth Magnetic Field. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-4	2	3
23	Analysis of a Defect Signal Deformations Induced by Eddy Current in RFECT System for Pipeline Inspection. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	3
22	Detection method of cracks by using magnetic fields in underground pipeline 2013 ,		3
21	A study on the skin effect and eddy current distributions in conductive media 2017 ,		3
20	Development of RFECT system for in-line inspection robot considering extendibility of receiving sensors based on parallel lock-in amplifier. <i>International Journal of Precision Engineering and Manufacturing</i> , 2017 , 18, 145-153	1.7	2
19	Effects of V-skew on the cogging torque in permanent magnet synchronous motor 2013 ,		2
18	Dynamics of Magnetic Particles in a Magnetic Separation System Using the Finite Element Field Model and Level Set Method. <i>IEEE Transactions on Applied Superconductivity</i> , 2010 , 20, 953-956	1.8	2
17	Design of Cryogenic Induction Motor Submerged in Liquefied Natural Gas. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-4	2	2
16	Magnetic Hysteresis Analysis of a Pipeline Re-Inspection by Using Preisach Model. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-4	2	1
15	A study on the design of induction motor in low speed urban electric vehicle 2016 ,		1
14	Analysis of RFECT system based on the eddy current distributions in pipeline inspection 2016 ,		1
13	Defect estimation of a crack in underground pipelines by CMFL type NDT system 2013 ,		1
12	Eddy current effects on the high density magnetic recording system. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 775-778	2	1
11	Novel Deperming Protocols to Reduce Demagnetizing Time and Improve the Performance for the Magnetic Silence of Warships. <i>Energies</i> , 2021 , 14, 6295	3.1	1
10	New algorithm for improvement of sizing accuracy of defect depth in MFL type nondestructive testing 2016 ,		1

9	Comparison of Magnetic Levitation Systems Using Ring-Shaped Permanent Magnets. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-4	2	1
8	A Neural Network-Based Model Reference Control Architecture for Oscillation Damping in Interconnected Power System. <i>Energies</i> , 2019 , 12, 3653	3.1	1
7	Design of Ferrite Core for the Improvement of Power Efficiency in Induction Range. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-4	2	0
6	Effects of Electro-Magnetic Properties of Obstacles in Magnetic Resonant Wireless Power Transfer. <i>Energies</i> , 2021 , 14, 7469	3.1	0
5	Resistance Variations in High-Frequency Inductors Considering Induced Fields Among Conductors. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-5	2	0
4	Influence of Magnetic Interactions on the Demagnetization Scheme of Multiple Ferromagnetic Materials by Using Preisach Model. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-4	2	
3	Proposal of a Novel Pole Type Structures in Perpendicular MRAM for High Gb/Chip. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 2417-2420	2	
2	Comparison of Electromagnetic Characteristics of Single-Phase Induction Motor between Balanced and Unbalanced Operation under Different Loads. <i>Energies</i> , 2021 , 14, 919	3.1	
1	Numerical Analysis of DC-biased Eddy Current Sensor Considering Hysteresis Effects. <i>IEEE Transactions on Magnetics</i> , 2022 , 1-1	2	