

Sarbajit Paul

List of Publications by Year in descending order

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all docs

23
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citing authors

#	ARTICLE	IF	CITATIONS
1	Design of a Novel Electromagnetic Energy Harvester With Dual Core for Deicing Device of Transmission Lines. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	24
2	Design of novel electromagnetic energy harvester to power a deicing robot and monitoring sensors for transmission lines. Energy Conversion and Management, 2019, 197, 111868.	9.2	22
3	A New Approach to Detect Mover Position in Linear Motors Using Magnetic Sensors. Sensors, 2015, 15, 26694-26708.	3.8	18
4	A Novel High-Resolution Optical Encoder With Axially Stacked Coded Disk for Modular Joints: Physical Modeling and Experimental Validation. IEEE Sensors Journal, 2018, 18, 6001-6008.	4.7	17
5	Nonlinear modeling and performance testing of high-power electromagnetic energy harvesting system for self-powering transmission line vibration deicing robot. Mechanical Systems and Signal Processing, 2021, 151, 107369.	8.0	13
6	Design of Linear Magnetic Position Sensor Used in Permanent Magnet Linear Machine With Consideration of Manufacturing Tolerances. IEEE Sensors Journal, 2019, 19, 5239-5248.	4.7	12
7	Comparative analysis of wave winding topologies and performance characteristics in ultra-thin printed circuit board axial-flux permanent magnet machine. IET Electric Power Applications, 2019, 13, 694-701.	1.8	11
8	Design and comparative survey of high torque coaxial permanent magnet coupling for tidal current generator. International Journal of Electrical Power and Energy Systems, 2020, 120, 105966.	5.5	11
9	Design of absolute encoder disk coding based on affine n digit N-ary gray code. , 2016, , .		10
10	Fast Numerical Analysis of Electric Motor Using Nonlinear Model Order Reduction. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	8
11	Design of a High-Force Electromechanical Actuator for Electrically Driven Lathe Machine. IEEE Transactions on Industrial Electronics, 2020, 67, 9526-9535.	7.9	8
12	Fast model-based design of high performance permanent magnet machine for next generation electric propulsion for urban aerial vehicle application. CES Transactions on Electrical Machines and Systems, 2021, 5, 143-151.	3.5	8
13	Design and Parametric Study of the Magnetic Sensor for Position Detection in Linear Motor Based on Nonlinear Parametric model order reduction. Sensors, 2017, 17, 1543.	3.8	6
14	Parametric Design Analysis of Magnetic Sensor Based on Model Order Reduction and Reliability-Based Design Optimization. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	6
15	Performance of Permanent Magnet Synchronous Generator for Urban Water Pipeline Energy Harvester Considering Slotting and Load Effect on Radial Force Characteristic. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	6
16	Precise Estimation of Initial Pole Position for Surface Permanent Magnet Synchronous Motor Based on Modified Reference Frame Method. IEEE Transactions on Magnetics, 2017, 53, 1-9.	2.1	5
17	Model-based design of variable speed non-salient pole permanent magnet synchronous generator for urban water pipeline energy harvester. International Journal of Electrical Power and Energy Systems, 2021, 125, 106402.	5.5	5
18	Computationally Efficient Stator AC Winding Loss Analysis Model for Traction Motors Used in High-Speed Railway Electric Multiple Unit. IEEE Access, 2022, 10, 28725-28738.	4.2	5

#	ARTICLE	IF	CITATIONS
19	Novel Core Airgap Profiles Design Scheme for Winding and Thermal Loss Reduction in High-Frequency Current Transformer Sensors. IEEE Sensors Journal, 2020, 20, 892-898.	4.7	3
20	Practical Consideration and Testing of Superior High Force Electromechanical Actuator for Electrically Driven Lathe. Mechatronics, 2021, 79, 102664.	3.3	3
21	Development of Coursework on Studying Fugitive Dust From Construction Site Using Optical-Type Dust Sensor. IEEE Sensors Journal, 2021, 21, 17318-17326.	4.7	2
22	Influence of Structural and Physical Parameters on Working Harmonic of Flux-Modulated Linear Actuator for Energy Storage System Fire Hazard Detection Robot. IEEE Transactions on Energy Conversion, 2022, 37, 1715-1725.	5.2	2
23	Performance of Urban Water-Pipeline Energy Harvester System Considering Electromagnetic-Mechanical Design. IEEE Transactions on Energy Conversion, 2022, 37, 389-402.	5.2	1