

Hossein Heydari

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Control of Standalone Single-Stage Photovoltaic Pumping System Using State Feedback Approach. , 2022, , .		2
2	Analysis and Design of Novel Structured High Torque Density Magnetic-Geared Permanent Magnet Machine. IEEE Access, 2021, 9, 64574-64586.	4.2	12
3	Precise appraisalment of the harmonic loads impact on hysteresis losses in a 3-phase HTS transformer. International Journal of Electrical Power and Energy Systems, 2021, 133, 107199.	5.5	5
4	Conducting a Survey of Research on High Temperature Superconducting Transformers. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-13.	1.7	11
5	Optimal Design of Passive Permanent Magnet Bearings. , 2019, , .		1
6	Optimal design of a compact passive magnetic bearing based on dynamic modelling. IET Electric Power Applications, 2019, 13, 720-729.	1.8	15
7	Augmentation of passive magnetic bearing performance by using air or iron intervals. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2019, 38, 657-671.	0.9	3
8	Study effect of the back irons in passive magnetic bearings with alternating radially magnetized rings by using 2D analytical method. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2019, 38, 1972-1985.	0.9	2
9	Comprehensive comparison of different structures of passive permanent magnet bearings. IET Electric Power Applications, 2018, 12, 179-187.	1.8	14
10	Levitation Force Maximization in HTS Magnetic Bearings Formulated by a Semianalytical Approach. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-11.	1.7	3
11	Analytical method for levitation force calculation of radial HTS magnetic bearings. IET Electric Power Applications, 2017, 11, 369-377.	1.8	14
12	Evaluation and modeling of saturated core fault current limiters. , 2017, , .		1
13	Thermo-electromagnetic analysis of radial HTS magnetic bearings using a semi-analytical method. IET Electric Power Applications, 2017, 11, 1538-1547.	1.8	5
14	Analytical Computation of Air-Gap Magnetic Field in a Viable Superconductive Magnetic Gear. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-12.	1.7	25
15	Sensitivity Analysis of Rotor Parameters in Axially Magnetized Radial HTS Magnetic Bearings Using an Analytical Method. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-11.	1.7	6
16	A Diversified Multiobjective Simulated Annealing and Genetic Algorithm for Optimizing a Three-Phase HTS Transformer. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-10.	1.7	20
17	Cogging Torque Mitigation in Axial Flux Magnetic Gear System Based on Skew Effects Using an Improved Quasi 3-D Analytical Method. IEEE Transactions on Magnetics, 2015, 51, 1-11.	2.1	20
18	Designing an efficient PI-based voltage control method for squirrel-cage induction generators in islanding/weak grid-connection conditions. , 2015, , .		3

#	ARTICLE	IF	CITATIONS
19	Saturated-core resonant fault current limiter. , 2015, , .		4
20	Comprehensive FEM analysis for saturable core fault current limiters in distribution network. , 2014, , .		5
21	Multiphysics Approach in HTS Transformers With Different Winding Schemes. IEEE Transactions on Applied Superconductivity, 2014, 24, 103-110.	1.7	11
22	Improved accuracy for finite element modeling in virtual air gap length computation. , 2014, , .		4
23	Comprehensive Analysis for Magnetic Shield Superconducting Fault Current Limiters. IEEE Transactions on Applied Superconductivity, 2013, 23, 5604610-5604610.	1.7	24
24	Study of RSFCL effect to improve the behavior of DFIG during a fault. , 2012, , .		10
25	Hysteresis Loss Improvement in HTS Transformers Using Hybrid Winding Schemes. IEEE Transactions on Applied Superconductivity, 2012, 22, 5500307-5500307.	1.7	11
26	A new crowbar protection method for improvement in performance of doubly fed induction generator under fault conditions. , 2011, , .		2
27	Viable Inductive Superconducting Fault-Current Limiters Using Autotransformer-Based Hybrid Schemes. IEEE Transactions on Applied Superconductivity, 2011, 21, 3514-3522.	1.7	11
28	Rational approach for self-limiting current injection transformers confirmed by coupled electromagnetic-thermal FEM simulation. Superconductor Science and Technology, 2011, 24, 075021.	3.5	6
29	An analytical method for selecting optimized crowbar for DFIG with AHP algorithm. , 2011, , .		6
30	A survey on different direct power control algorithms of DFIGs. , 2011, , .		0
31	Optimization Scheme in Combinatorial UPQC and SFCL Using Normalized Simulated Annealing. IEEE Transactions on Power Delivery, 2011, 26, 1489-1498.	4.3	48
32	Enhanced predictive direct power control of DFIG. , 2011, , .		2
33	Multicriteria Optimal Winding Scheme in HTS Transformers by Analytical Hierarchy Process. IEEE Transactions on Applied Superconductivity, 2011, 21, 2-12.	1.7	6
34	Pareto Optimality for the Design of SMES Solenoid Coils Verified by Magnetic Field Analysis. IEEE Transactions on Applied Superconductivity, 2011, 21, 13-20.	1.7	28
35	Interruptible load participation as operating reserve in joint energy and spinning reserve markets using stochastic security analysis. , 2010, , .		2
36	Reduction in VA rating of the Unified Power Quality Conditioner with superconducting fault current limiters. , 2010, , .		7

#	ARTICLE	IF	CITATIONS
37	Mechanical Force Analysis in Heavy-Current HTS Transformers Based on Field and Current Nonuniformity Coupled Analysis. IEEE Transactions on Applied Superconductivity, 2010, 20, 2276-2282.	1.7	20
38	Electro-thermal modeling and optimization algorithm of resistive superconducting fault current limiters. , 2010, , .		4
39	TIME DOMAIN PHYSICAL OPTICS FOR THE HIGHER-ORDER FDTD MODELING IN ELECTROMAGNETIC SCATTERING FROM 3-D COMPLEX AND COMBINED MULTIPLE MATERIALS OBJECTS. Progress in Electromagnetics Research, 2009, 95, 87-102.	4.4	13
40	Resistor Type Superconducting Fault Current Limiter: Optimum Shunt Resistance Determination to Enhance Power System Transient Stability. IEEJ Transactions on Power and Energy, 2009, 129, 299-308.	0.2	2
41	REDUCTION OF LEAKAGE MAGNETIC FIELD IN ELECTROMAGNETIC SYSTEMS BASED ON ACTIVE SHIELDING CONCEPT VERIFIED BY EIGENVALUE ANALYSIS. Progress in Electromagnetics Research, 2009, 96, 217-236.	4.4	8
42	Viable Superconductor-Based Current Control Circuit for High Current Injection System. IEEE Transactions on Applied Superconductivity, 2009, 19, 3630-3636.	1.7	7
43	A new approach for AC loss reduction in HTS transformer using auxiliary windings, case study: 25 kA HTS current injection transformer. Superconductor Science and Technology, 2008, 21, 015009.	3.5	14
44	Mutual inductances comparison in Rogowski coil with circular and rectangular cross-sections and its improvement. , 2008, , .		16
45	Superconducting technology for overcurrent limiting in a 25 kA current injection system. Superconductor Science and Technology, 2008, 21, 095016.	3.5	11
46	Comparative harmonic loss measurement in grain oriented and non-oriented magnetic sheets using a precision single-sheet tester. Measurement Science and Technology, 2008, 19, 045703.	2.6	1
47	A COMBINATION OF TIME DOMAIN FINITE ELEMENT-BOUNDARY INTEGRAL AND WITH TIME DOMAIN PHYSICAL OPTICS FOR CALCULATION OF ELECTROMAGNETIC SCATTERING OF 3-D STRUCTURES. Progress in Electromagnetics Research, 2008, 79, 463-474.	4.4	24
48	CONVOLUTIONAL CODES ACTING AS EMI VIRTUAL SHIELDS IN CURRENT INJECTION SYSTEMS. Progress in Electromagnetics Research, 2008, 88, 337-353.	4.4	3
49	Synthesis and Characterisation of Hematite-Zircon Nanocomposite by Sol-Gel Method. Advanced Materials Research, 0, 829, 544-548.	0.3	7