

Hossein Heydari

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Optimization Scheme in Combinatorial UPQC and SFCL Using Normalized Simulated Annealing. IEEE Transactions on Power Delivery, 2011, 26, 1489-1498.	4.3	48
2	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
3	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
4	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
5	Comprehensive Analysis for Magnetic Shield Superconducting Fault Current Limiters. IEEE Transactions on Applied Superconductivity, 2013, 23, 5604610-5604610.	1.7	24
6	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
7	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
8	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
9	Mutual inductances comparison in Rogowski coil with circular and rectangular cross-sections and its improvement. , 2008, , .		16
10	Optimal design of a compact passive magnetic bearing based on dynamic modelling. IET Electric Power Applications, 2019, 13, 720-729.	1.8	15
11	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
12	Analytical method for levitation force calculation of radial HTS magnetic bearings. IET Electric Power Applications, 2017, 11, 369-377.	1.8	14
13	Comprehensive comparison of different structures of passive permanent magnet bearings. IET Electric Power Applications, 2018, 12, 179-187.	1.8	14
14	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
15	Analysis and Design of Novel Structured High Torque Density Magnetic-Geared Permanent Magnet Machine. IEEE Access, 2021, 9, 64574-64586.	4.2	12
16	Superconducting technology for overcurrent limiting in a 25 kA current injection system. Superconductor Science and Technology, 2008, 21, 095016.	3.5	11
17	Viable Inductive Superconducting Fault-Current Limiters Using Autotransformer-Based Hybrid Schemes. IEEE Transactions on Applied Superconductivity, 2011, 21, 3514-3522.	1.7	11
18	Hysteresis Loss Improvement in HTS Transformers Using Hybrid Winding Schemes. IEEE Transactions on Applied Superconductivity, 2012, 22, 5500307-5500307.	1.7	11

#	ARTICLE	IF	CITATIONS
19	Multiphysics Approach in HTS Transformers With Different Winding Schemes. IEEE Transactions on Applied Superconductivity, 2014, 24, 103-110.	1.7	11
20	Conducting a Survey of Research on High Temperature Superconducting Transformers. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-13.	1.7	11
21	Study of RSFCL effect to improve the behavior of DFIG during a fault. , 2012, , .		10
22	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
23	Viable Superconductor-Based Current Control Circuit for High Current Injection System. IEEE Transactions on Applied Superconductivity, 2009, 19, 3630-3636.	1.7	7
24	Reduction in VA rating of the Unified Power Quality Conditioner with superconducting fault current limiters. , 2010, , .		7
25	Synthesis and Characterisation of Hematite-Zircon Nanocomposite by Sol-Gel Method. Advanced Materials Research, 0, 829, 544-548.	0.3	7
26	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
27	An analytical method for selecting optimized crowbar for DFIG with AHP algorithm. , 2011, , .		6
28	Multicriteria Optimal Winding Scheme in HTS Transformers by Analytical Hierarchy Process. IEEE Transactions on Applied Superconductivity, 2011, 21, 2-12.	1.7	6
29	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
30	Comprehensive FEM analysis for saturable core fault current limiters in distribution network. , 2014, , .		5
31	Thermo-electromagnetic analysis of radial HTS magnetic bearings using a semi-analytical method. IET Electric Power Applications, 2017, 11, 1538-1547.	1.8	5
32	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
33	Electro-thermal modeling and optimization algorithm of resistive superconducting fault current limiters. , 2010, , .		4
34	Improved accuracy for finite element modeling in virtual air gap length computation. , 2014, , .		4
35	Saturated-core resonant fault current limiter. , 2015, , .		4
36	CONVOLUTIONAL CODES ACTING AS EMI VIRTUAL SHIELDS IN CURRENT INJECTION SYSTEMS. Progress in Electromagnetics Research, 2008, 88, 337-353.	4.4	3

#	ARTICLE	IF	CITATIONS
37	Designing an efficient PI-based voltage control method for squirrel-cage induction generators in islanding/weak grid-connection conditions. , 2015, , .		3
38	Levitation Force Maximization in HTS Magnetic Bearings Formulated by a Semianalytical Approach. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-11.	1.7	3
39	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
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	Interruptible load participation as operating reserve in joint energy and spinning reserve markets using stochastic security analysis. , 2010, , .		2
42	A new crowbar protection method for improvement in performance of doubly fed induction generator under fault conditions. , 2011, , .		2
43	Enhanced predictive direct power control of DFIG. , 2011, , .		2
44	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
45	Control of Standalone Single-Stage Photovoltaic Pumping System Using State Feedback Approach. , 2022, , .		2
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	Evaluation and modeling of saturated core fault current limiters. , 2017, , .		1
48	Optimal Design of Passive Permanent Magnet Bearings. , 2019, , .		1
49	A survey on different direct power control algorithms of DFIGs. , 2011, , .		0