Kay Hameyer

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/11990342/publications.pdf

Version: 2024-02-01

36	774	840776	552781
papers	citations	11 h-index	26 g-index

37	37	37	728
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fault Diagnosis of Bearing Damage by Means of the Linear Discriminant Analysis of Stator Current Features From the Frequency Selection. IEEE Transactions on Industry Applications, 2016, 52, 3861-3868.	4.9	112
2	Advanced Iron-Loss Estimation for Nonlinear Material Behavior. IEEE Transactions on Magnetics, 2012, 48, 3021-3024.	2.1	111
3	Torque Ripple Minimization for Direct Torque Control of PMSM With Modified FCSMPC. IEEE Transactions on Industry Applications, 2016, 52, 4855-4864.	4.9	75
4	Iron Losses in a Medium-Frequency Transformer Operated in a High-Power DCâ€“DC Converter. IEEE Transactions on Magnetics, 2014, 50, 953-956.	2.1	74
5	Iron-Loss Model With Consideration of Minor Loops Applied to FE-Simulations of Electrical Machines. IEEE Transactions on Magnetics, 2013, 49, 3945-3948.	2.1	56
6	Crowbar System in Doubly Fed Induction Wind Generators. Energies, 2010, 3, 738-753.	3.1	55
7	Iron-Loss and Magnetic Hysteresis Under Arbitrary Waveforms in NO Electrical Steel: A Comparative Study of Hysteresis Models. IEEE Transactions on Industrial Electronics, 2017, 64, 2511-2521.	7.9	51
8	Performance Factor Comparison of Nanocrystalline, Amorphous, and Crystalline Soft Magnetic Materials for Medium-Frequency Applications. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	44
9	Effect of mechanical stress on different iron loss components up to high frequencies and magnetic flux densities. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2017, 36, 580-592.	0.9	30
10	Advanced Soft- and Hard-Magnetic Material Models for the Numerical Simulation of Electrical Machines. IEEE Transactions on Magnetics, 2018, 54, 1-8.	2.1	27
11	Advanced iron-loss calculation as a basis for efficiency improvement of electrical machines in automotive application. , 2012, , .		24
12	Material Design for Low-Loss Non-Oriented Electrical Steel for Energy Efficient Drives. Materials, 2021, 14, 6588.	2.9	18
13	Power Loss Calculation Using the Parametric Magneto-Dynamic Model of Soft Magnetic Steel Sheets. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	10
14	A finite control set model predictive direct torque control for the PMSM with MTPA operation and torque ripple minimization. , 2015, , .		10
15	Comparison of the Characteristics of Cost-Oriented Designed High-Speed Low-Power Interior PMSM. IEEE Transactions on Industry Applications, 2017, 53, 5262-5271.	4.9	10
16	Magnetic transmission gear finite element simulation with iron pole hysteresis. Open Physics, 2018, 16, 105-110.	1.7	7
17	Complete and accurate modular numerical computation scheme for multiâ€coupled electric drive systems. IET Science, Measurement and Technology, 2020, 14, 259-271.	1.6	7
18	Simulation of iron losses in induction machines using an iron loss model for rotating magnetization loci in no electrical steel. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2022, 41, 600-614.	0.9	7

#	Article	IF	Citations
19	Integrated Process Simulation of Non-Oriented Electrical Steel. Materials, 2021, 14, 6659.	2.9	6
20	Iron loss comparison of standard SiFe and nanocrystalline materials for power transformers in a dual active bridge converter. , 2016, , .		5
21	Influences on the Accuracy of Torque Calculation for Permanent Magnet Synchronous Machines. IEEE Transactions on Energy Conversion, 2020, 35, 2261-2268.	5.2	4
22	Influence of the Preformed Coil Design on the Thermal Behavior of Electric Traction Machines. Energies, 2021, 14, 959.	3.1	4
23	Low-loss FeSi sheet for energy-efficient electrical drives. AIMS Materials Science, 2018, 5, 1184-1198.	1.4	4
24	Loss Parameter Identification After Cutting for Different Non-Oriented Electrical Steel Grades. IEEE Transactions on Magnetics, 2022, 58, 1-5.	2.1	4
25	Cost-oriented design of high speed low power interior permanent magnet synchronous machines. , 2016, , .		3
26	Design of an BLDC drive with iron core to improve the efficiency of Ventricular Assist Devices. , 2013, , .		2
27	Improved rotor pole geometry of a PMSM for wind turbine applications with multiple high-speed generators. , 2014, , .		2
28	Compact machine design of an integrated multiphase VPMSM. , 2015, , .		2
29	Design strategy and simulation of medium-frequency transformers for a three-phase dual active bridge. , 2018, , .		2
30	Iron-loss model for arbitrary magnetization loci in NO electrical steel. International Journal of Applied Electromagnetics and Mechanics, 2019, 61, S89-S96.	0.6	2
31	Iron loss simulation using a local material model. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2019, 38, 1224-1234.	0.9	2
32	Influence of non-linear frequency-dependent material properties on the operation of rotating electrical machines. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2015, 34, 674-690.	0.9	1
33	Mechanical stress distribution and the utilisation of the magneto-elastic effect in electrical machines. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2019, 38, 1085-1097.	0.9	1
34	High Torque Density Low Voltage Traction Drives with Preformed Coils: Evaluation of Operating Limitations. , 2020, , .		1
35	Powertrain Fault Diagnosis of Manufacturing Processes by Means of Servo Drives. , 2019, , .		0
36	Adaptation and parametrization of an iron loss model for rotating magnetization loci in NO electrical steel. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2021, ahead-of-print, .	0.9	0