# Georgi Shilyashki

List of Publications by Year
in descending order

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|---|---|---|---|
| 26 papers | 236 citations | 1040056 9 h-index | 996975 15 g-index |
| 26 all docs | 26 docs citations | 26 times ranked | 150 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Calculated versus measured iron losses and instantaneous magnetization power functions of electrical steel. Electrical Engineering, 2022, 104, 2449-2455. | 2.0 | 4 |
| 2 | Timeâ€averaged and instantaneous magnetic loss characteristics of different products of electrical steel for frequencies of 16Â2/3ÂHz up to 500ÂHz. IET Electric Power Applications, 2022, 16, 525-535. | 1.8 | 5 |
| 3 | Giant Epstein Tester for Magnetic Energy Loss Measurements of Non-Annealed Domain-Refined Feâ€“Si. IEEE Transactions on Magnetics, 2022, 58, 1-6. | 2.1 | 2 |
| 4 | Numerical modeling of magnetic induction in standard and triple Epstein frames considering cutting and staggering of sensor strips. AIP Advances, 2021, 11, . | 1.3 | 2 |
| 5 | 3-D MACC Modeling of Instantaneous Magnetic Flux Distributions in Epstein Tester. IEEE Transactions on Magnetics, 2020, 56, 1-5. | 2.1 | 8 |
| 6 | 3-D Printed Magnetic Field Coil for Medium Frequency Epstein Tester. IEEE Transactions on Magnetics, 2020, 56, 1-5. | 2.1 | 5 |
| 7 | Physical Assessment of the Magnetic Path Length of Energy Loss Testers. IEEE Transactions on Magnetics, 2020, 56, 1-7. | 2.1 | 11 |
| 8 | Numerical and Experimental Determination of Local Building Factors of a Three-Phase Transformer Core Package. IEEE Transactions on Magnetics, 2019, 55, 1-8. | 2.1 | 0 |
| 9 | Theoretical Basis for Physically Correct Measurement and Interpretation of Magnetic Energy Losses. IEEE Transactions on Magnetics, 2018, 54, 1-7. | 2.1 | 6 |
| 10 | Effects of DC Bias on Regional Flux and Magnetostriction of a Single-Phase Transformer Core Modeled by 3-D MACC. IEEE Transactions on Magnetics, 2018, 54, 1-6. | 2.1 | 17 |
| 11 | Can Circular Rotational Losses of Non-Oriented Soft Magnetic Materials Be Estimated From Alternating Losses?. IEEE Transactions on Magnetics, 2018, 54, 1-6. | 2.1 | 6 |
| 12 | Interlaminar Magnetic Flux Assessment of a Transformer Core Measured by an Extra-Thin Printed Foil Detector. IEEE Transactions on Magnetics, 2017, 53, 1-6. | 2.1 | 5 |
| 13 | Magnetic circuit modelling of transformer core induction â€“ resolution and accuracy. IET Electric Power Applications, 2017, 11, 1341-1346. | 1.8 | 4 |
| 14 | 3D-Printed Detector Band for Magnetic Off-Plane Flux Measurements in Laminated Machine Cores. Sensors, 2017, 17, 2953. | 3.8 | 7 |
| 15 | Spatial distributions of magnetostriction, displacements and noise generation of model transformer cores. International Journal of Mechanical Sciences, 2016, 118, 188-194. | 6.7 | 24 |
| 16 | Inhomogeneity and Local Distortions of Magnetic Flux in a Single-Phase Transformer Core Package. IEEE Transactions on Magnetics, 2016, 52, 1-9. | 2.1 | 1 |
| 17 | Multi-directionally non-linear magnetic equivalence circuit calculation (MACC) of rotational magnetization intensity in transformer cores. International Journal of Applied Electromagnetics and Mechanics, 2016, 50, 81-95. | 0.6 | 11 |
| 18 | Numerical Prediction of Rhombic Rotational Magnetization Patterns in a Transformer Core Package. IEEE Transactions on Magnetics, 2016, 52, 1-10. | 2.1 | 14 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Automatic 3-dimensional flux analyses of a 3-phase model transformer core. International Journal of Applied Electromagnetics and Mechanics, 2015, 48, 277-282. | 0.6 | 4 |
| 20 | Pin Sensor for Interior Induction Measurements in Transformer Cores. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 9 |
| 21 | The Impact of Off-Plane Flux on Losses and Magnetostriction of Transformer Core Steel. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 2.1 | 16 |
| 22 | Concept for more correct magnetic power loss measurements considering path length dynamics. International Journal of Applied Electromagnetics and Mechanics, 2014, 44, 259-270. | 0.6 | 8 |
| 23 | Rise-of-temperature method for building factor distribution in 1-phase model transformer core interior considering high DC bias. International Journal of Applied Electromagnetics and Mechanics, 2014, 44, 349-354. | 0.6 | 5 |
| 24 | Automatic 3-D Building Factor Analyses of a Grain-Oriented Model Transformer Core. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 2.1 | 18 |
| 25 | Rotational Magnetization in Transformer Coresâ€"A Review. IEEE Transactions on Magnetics, 2011, 47, 4523-4533. | 2.1 | 43 |
| 26 | Consistent Measurement of Magnetic Energy Losses by a Low-Mass, High-Frequency Single Sheet Tester. , 0, , . | | 1 |