

# Nora Leuning

## List of Publications by Year in descending order

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39  
papers

526  
citations

759233

12  
h-index

677142

22  
g-index

41  
all docs

41  
docs citations

41  
times ranked

230  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of shear cutting parameters on the electromagnetic properties of non-oriented electrical steel sheets. Journal of Magnetism and Magnetic Materials, 2017, 421, 250-259.	2.3	85
2	Effect of elastic and plastic tensile mechanical loading on the magnetic properties of NGO electrical steel. Journal of Magnetism and Magnetic Materials, 2016, 417, 42-48.	2.3	60
3	Impact of Punching Parameter Variations on Magnetic Properties of Nongrain-Oriented Electrical Steel. IEEE Transactions on Industry Applications, 2018, 54, 5869-5878.	4.9	44
4	Effect of grain size and magnetic texture on iron-loss components in NO electrical steel at different frequencies. Journal of Magnetism and Magnetic Materials, 2019, 469, 373-382.	2.3	34
5	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
6	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
7	On the correlation of crystallographic macro-texture and magnetic magnetization anisotropy in non-oriented electrical steel. Journal of Magnetism and Magnetic Materials, 2019, 490, 165485.	2.3	21
8	Effect of manganese in high silicon alloyed non-oriented electrical steel sheets. Journal of Magnetism and Magnetic Materials, 2019, 477, 372-381.	2.3	19
9	Neutron grating interferometry investigation of punching-related local magnetic property deteriorations in electrical steels. Journal of Magnetism and Magnetic Materials, 2019, 474, 643-653.	2.3	18
10	Material Design for Low-Loss Non-Oriented Electrical Steel for Energy Efficient Drives. Materials, 2021, 14, 6588.	2.9	18
11	Impact of the interaction of material production and mechanical processing on the magnetic properties of non-oriented electrical steel. AIP Advances, 2018, 8, .	1.3	14
12	Effect of Material Processing and Imposed Mechanical Stress on the Magnetic, Mechanical, and Microstructural Properties of High-Silicon Electrical Steel. Steel Research International, 2016, 87, 1638-1647.	1.8	12
13	Magnetic Material Deterioration of Non-Oriented Electrical Steels as a Result of Plastic Deformation Considering Residual Stress Distribution. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	11
14	Effect of the Interdependence of Cold Rolling Strategies and Subsequent Punching on Magnetic Properties of NO Steel Sheets. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	10
15	Correlating magnetic properties of ferritic NO electrical steel containing 2.4Åm.%Si with hot strip microstructure. Journal of Magnetism and Magnetic Materials, 2020, 501, 166431.	2.3	9
16	Influence of Process Parameters on Grain Size and Texture Evolution of Fe-3.2 wt.-% Si Non-Oriented Electrical Steels. Materials, 2021, 14, 6822.	2.9	9
17	Analysis of a novel laser welding strategy for electrical steel laminations. , 2017, , .		8
18	Grain Size Influence on the Magnetic Property Deterioration of Blanked Non-Oriented Electrical Steels. Materials, 2021, 14, 7055.	2.9	8

#	ARTICLE	IF	CITATIONS
19	Impact of grain size distribution on the magnetic deterioration due to cutting of electrical steel sheets. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 497, 166080.	2.3	7
20	Impact of residual stress evoked by pyramidal embossing on the magnetic material properties of non-oriented electrical steel. <i>Archive of Applied Mechanics</i> , 2021, 91, 3513-3526.	2.2	7
21	Complete and accurate modular numerical computation scheme for multi-coupled electric drive systems. <i>IET Science, Measurement and Technology</i> , 2020, 14, 259-271.	1.6	7
22	On the Homogeneity and Isotropy of Non-Grain-Oriented Electrical Steel Sheets for the Modeling of Basic Magnetic Properties from Microstructure and Texture. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-5.	2.1	6
23	Loss reduction due to blanking parameter optimization for different non-grain oriented electrical steel grades. , 2017, , .		6
24	Effect of magnetic anisotropy on Villari Effect in non-oriented FeSi electrical steel. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2017, 55, 23-31.	0.6	6
25	Integrated Process Simulation of Non-Oriented Electrical Steel. <i>Materials</i> , 2021, 14, 6659.	2.9	6
26	Manufacturing efficient electrical motors with a predictive maintenance approach. <i>CIRP Annals - Manufacturing Technology</i> , 2019, 68, 253-256.	3.6	5
27	Characterization Methods along the Process Chain of Electrical Steel Sheet – From Best Practices to Advanced Characterization. <i>Materials</i> , 2022, 15, 32.	2.9	5
28	The influence of residual stress on flux-barriers of non-oriented electrical steel. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 504, 166659.	2.3	4
29	Modeling of Scalar Dependencies of Soft Magnetic Material Magnetization for Electrical Machine Finite-Element Simulation. <i>IEEE Transactions on Magnetics</i> , 2020, 56, 1-4.	2.1	4
30	Low-loss FeSi sheet for energy-efficient electrical drives. <i>AIMS Materials Science</i> , 2018, 5, 1184-1198.	1.4	4
31	Loss Parameter Identification After Cutting for Different Non-Oriented Electrical Steel Grades. <i>IEEE Transactions on Magnetics</i> , 2022, 58, 1-5.	2.1	4
32	Study of the Thermal Conductivity of Soft Magnetic Materials in Electric Traction Machines. <i>Energies</i> , 2021, 14, 5310.	3.1	3
33	Iron loss components dependent on mechanical compressive and tensile stress in non-oriented electrical steel. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2019, 59, 255-261.	0.6	2
34	The Effect of Structural Material Parameters on the Operational Characteristic of Traction Drives for EV Applications. <i>IEEE Transactions on Magnetics</i> , 2021, 57, 1-6.	2.1	2
35	A continuous parameter-based approach to model the effect of mechanical stress on the electromagnetic hysteresis characteristic. , 2018, , .		1
36	Consideration of ferromagnetic anisotropy in electrical machines built of segmented silicon steel sheets. <i>IET Science, Measurement and Technology</i> , 2020, 14, 242-249.	1.6	1

#	ARTICLE	IF	CITATIONS
37	Evaluation of the interdependency of mechanical cutting and magnetic anisotropy on the magnetic properties of FeSi electrical steel. Przegląd Elektrotechniczny, 2019, 1, 3-8.	0.2	1
38	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
39	Parameter Study on the Effects of Spot-welding on the Electromagnetic Properties of Magnetic Cores Constructed from Electrical Steel. , 2021, , .		0