

Ugur Aydin

List of Publications by Year in descending order

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of multi-axial stress on iron losses of electrical steel sheets. Journal of Magnetism and Magnetic Materials, 2019, 469, 19-27.	2.3	41
2	Modeling of Hysteresis Losses in Ferromagnetic Laminations Under Mechanical Stress. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	35
3	Magneto-mechanical modeling of electrical steel sheets. Journal of Magnetism and Magnetic Materials, 2017, 439, 82-90.	2.3	30
4	Rotational Single Sheet Tester for Multiaxial Magneto-Mechanical Effects in Steel Sheets. IEEE Transactions on Magnetics, 2019, 55, 1-10.	2.1	18
5	Coupled Magneto-Mechanical Analysis of Iron Sheets Under Biaxial Stress. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	17
6	Acoustic Noise Computation of Electrical Motors Using the Boundary Element Method. Energies, 2020, 13, 245.	3.1	16
7	Effect of Punching the Electrical Sheets on Optimal Design of a Permanent Magnet Synchronous Motor. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	15
8	Modeling the Effect of Multiaxial Stress on Magnetic Hysteresis of Electrical Steel Sheets: A Comparison. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	14
9	Equivalent Strain and Stress Models for the Effect of Mechanical Loading on the Permeability of Ferromagnetic Materials. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	11
10	Analysis of iron losses on the cutting edges of induction motor core laminations. , 2016, , .		10
11	Determination of stress dependent magnetostriction from a macroscopic magneto-mechanical model and experimental magnetization curves. Journal of Magnetism and Magnetic Materials, 2020, 500, 166299.	2.3	8
12	Modeling a Fe-Ga energy harvester fitted with magnetic closure using 3D magneto-mechanical finite element model. Journal of Magnetism and Magnetic Materials, 2020, 500, 166390.	2.3	8
13	Effect of mechanical stress on magnetization and magnetostriction strain behavior of non-oriented Si-Fe steels at different directions and under pseudo-DC conditions. International Journal of Applied Electromagnetics and Mechanics, 2019, 60, 299-312.	0.6	7
14	Modeling of multi-axial stress dependent iron losses in electrical steel sheets. Journal of Magnetism and Magnetic Materials, 2020, 504, 166612.	2.3	7
15	3-D Magneto-Mechanical Finite Element Analysis of Galfenol-Based Energy Harvester Using an Equivalent Stress Model. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	7
16	Investigation of the causes behind the vibrations of a high-speed solid-rotor induction motor. Journal of Sound and Vibration, 2019, 463, 114976.	3.9	6
17	Experimental characterization of the effect of uniaxial stress on magnetization and iron losses of electrical steel sheets cut by punching process. Journal of Magnetism and Magnetic Materials, 2022, 549, 168983.	2.3	6
18	Multiaxial magneto-mechanical modelling of electrical machines with hysteresis. , 2016, , .		5

#	ARTICLE	IF	CITATIONS
19	Influence of magnetic forces and magnetostriction on the vibration behavior of an induction motor. International Journal of Applied Electromagnetics and Mechanics, 2019, 59, 825-834.	0.6	5
20	Analysis of the Magneto-Mechanical Anisotropy of Steel Sheets in Electrical Applications. IEEE Transactions on Magnetics, 2020, 56, 1-4.	2.1	5
21	Flexible identification procedure for thermodynamic constitutive models for magnetostrictive materials. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20180280.	2.1	3
22	Verification of electric steel punching simulation results using microhardness. International Journal of Advanced Manufacturing Technology, 2021, 112, 2027-2036.	3.0	3
23	Magneto-mechanical analysis of an axially laminated synchronous reluctance machine. , 2016, , .		2
24	Computational and experimental segregation of deformations due to magnetic forces and magnetostriction. , 2017, , .		2
25	Modelling the effect of multiaxial stress on magnetic hysteresis of electrical steel sheets: A comparison. , 2016, , .		1
26	Demagnetization field in a uniformly magnetized ellipsoid embedded in an infinite anisotropic media. , 2016, , .		0