

# Ugur Aydin

## List of Publications by Year in descending order

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26  
papers

282  
citations

1039406

9  
h-index

940134

16  
g-index

26  
all docs

26  
docs citations

26  
times ranked

194  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental characterization of the effect of uniaxial stress on magnetization and iron losses of electrical steel sheets cut by punching process. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 549, 168983.	1.0	6
2	3-D Magneto-Mechanical Finite Element Analysis of Galfenol-Based Energy Harvester Using an Equivalent Stress Model. <i>IEEE Transactions on Magnetics</i> , 2021, 57, 1-5.	1.2	7
3	Verification of electric steel punching simulation results using microhardness. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 112, 2027-2036.	1.5	3
4	Analysis of the Magneto-Mechanical Anisotropy of Steel Sheets in Electrical Applications. <i>IEEE Transactions on Magnetics</i> , 2020, 56, 1-4.	1.2	5
5	Determination of stress dependent magnetostriction from a macroscopic magneto-mechanical model and experimental magnetization curves. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 500, 166299.	1.0	8
6	Modeling a Fe-Ga energy harvester fitted with magnetic closure using 3D magneto-mechanical finite element model. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 500, 166390.	1.0	8
7	Modeling of multi-axial stress dependent iron losses in electrical steel sheets. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 504, 166612.	1.0	7
8	Acoustic Noise Computation of Electrical Motors Using the Boundary Element Method. <i>Energies</i> , 2020, 13, 245.	1.6	16
9	Effect of multi-axial stress on iron losses of electrical steel sheets. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 469, 19-27.	1.0	41
10	Investigation of the causes behind the vibrations of a high-speed solid-rotor induction motor. <i>Journal of Sound and Vibration</i> , 2019, 463, 114976.	2.1	6
11	Effect of mechanical stress on magnetization and magnetostriction strain behavior of non-oriented Si-Fe steels at different directions and under pseudo-DC conditions. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2019, 60, 299-312.	0.3	7
12	Flexible identification procedure for thermodynamic constitutive models for magnetostrictive materials. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20180280.	1.0	3
13	Rotational Single Sheet Tester for Multiaxial Magneto-Mechanical Effects in Steel Sheets. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-10.	1.2	18
14	Influence of magnetic forces and magnetostriction on the vibration behavior of an induction motor. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2019, 59, 825-834.	0.3	5
15	Equivalent Strain and Stress Models for the Effect of Mechanical Loading on the Permeability of Ferromagnetic Materials. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-4.	1.2	11
16	Effect of Punching the Electrical Sheets on Optimal Design of a Permanent Magnet Synchronous Motor. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-4.	1.2	15
17	Modeling the Effect of Multiaxial Stress on Magnetic Hysteresis of Electrical Steel Sheets: A Comparison. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-4.	1.2	14
18	Magneto-mechanical modeling of electrical steel sheets. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 439, 82-90.	1.0	30

#	ARTICLE	IF	CITATIONS
19	Computational and experimental segregation of deformations due to magnetic forces and magnetostriction. , 2017, , .		2
20	Magneto-mechanical analysis of an axially laminated synchronous reluctance machine. , 2016, , .		2
21	Modelling the effect of multiaxial stress on magnetic hysteresis of electrical steel sheets: A comparison. , 2016, , .		1
22	Analysis of iron losses on the cutting edges of induction motor core laminations. , 2016, , .		10
23	Demagnetization field in a uniformly magnetized ellipsoid embedded in an infinite anisotropic media. , 2016, , .		0
24	Multiaxial magneto-mechanical modelling of electrical machines with hysteresis. , 2016, , .		5
25	Modeling of Hysteresis Losses in Ferromagnetic Laminations Under Mechanical Stress. IEEE Transactions on Magnetism, 2016, 52, 1-4.	1.2	35
26	Coupled Magneto-Mechanical Analysis of Iron Sheets Under Biaxial Stress. IEEE Transactions on Magnetism, 2016, 52, 1-4.	1.2	17