Anouar Belahcen

List of Publications by Year in Descending Order

223 papers	2,056 citations	25 h-index	34 g-index
258 ext. papers	2,726 ext. citations	2.3 avg, IF	5.46 L-index

#	Paper	IF	Citations
223	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	2.8	1
222	Determination of Core Losses Using an Inverse Modeling Technique. *IEEE Access*, **2022**, 10, 29224-29232	3.5	0
221	Simulation-Based Comparative Assessment of a Multi-Speed Transmission for an E-Retrofitted Heavy-Duty Truck. *Energies*, **2022**, 15, 2407	3.1	1
220	2D Analytical Model for Computing Eddy-Current Loss in Nonlinear Thick Steel Laminations. *IEEE Transactions on Magnetics*, **2022**, 1-1	2	
219	Uncertainty Quantification of Input Parameters in a 2D Finite-Element Model for Broken Rotor Bar in an Induction Machine. *IEEE Transactions on Magnetics*, **2022**, 1-1	2	
218	AC Losses Analysis Approaches for Electric Vehicle Motors with Hairpin Winding Configuration **2021**,		1
217	The Modeling and Investigation of Slot Skews and Supply Imbalance on the Development of Principal Slotting Harmonics in Squirrel Cage Induction Machines. *IEEE Access*, **2021**, 9, 165932-165946	3.5	0
216	Design of a Research Laboratory Drive System for a Synchronous Reluctance Motor for Vector Control and Performance Analysis. *Inventions*, **2021**, 6, 64	2.9	1
215	Transient Modeling and Recovery of Non-Stationary Fault Signature for Condition Monitoring of Induction Motors. *Applied Sciences (Switzerland)*, **2021**, 11, 2806	2.6	3
214	A Modified Dynamic Model of Single-Sided Linear Induction Motors Considering Longitudinal and Transversal Effects. *Electronics (Switzerland)*, **2021**, 10, 933	2.6	5
213	Comparison of Model Order Reduction Methods for a Switched Reluctance Machine Characterization. *IEEE Transactions on Magnetics*, **2021**, 57, 1-6	2	2
212	IoT Based Tools for Data Acquisition in Electrical Machines and Robotics **2021**,		2
211	Determination of Heat Transfer Coefficient from Housing Surface of a Totally Enclosed Fan-Cooled Machine during Passive Cooling. *Machines*, **2021**, 9, 120	2.9	5
210	Additive Manufacturing and Performance of E-Type Transformer Core. *Energies*, **2021**, 14, 3278	3.1	3
209	Finite Element Analysis of the Magneto-Mechanical Coupling Due to Punching Process in Electrical Steel Sheet. *IEEE Transactions on Magnetics*, **2021**, 57, 1-4	2	1
208	LOD Homogenization of Multiscale Eddy Current Problem in Time Domain. *IEEE Transactions on Magnetics*, **2021**, 57, 1-4	2	
207	Alternating and rotational loss prediction accuracy of vector Jiles-Atherton model. *Journal of Magnetism and Magnetic Materials*, **2021**, 527, 167690	2.8	2

206	Real-Time Control of an IPMSM Using Model Order Reduction. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 2005-2014	8.9	7
205	Effects of Manufacturing Processes on Core Losses of Electrical Machines. *IEEE Transactions on Energy Conversion*, **2021**, 36, 197-206	5.4	4
204	Determination of heat transfer coefficient of finned housing of a TEFC variable speed motor. *Electrical Engineering*, **2021**, 103, 1009-1017	1.5	4
203	Sliding Mean Value Subtraction-Based DC Drift Correction of B-H Curve for 3D-Printed Magnetic Materials. *Energies*, **2021**, 14, 284	3.1	0
202	Additive Manufacturing of Prototype Axial Flux Switched Reluctance Electrical Machine **2021**,		2
201	Safe Turn-off Strategy for Electric Drives in Automotive Applications. *IEEE Transactions on Transportation Electrification*, **2021**, 1-1	7.6	1
200	Opportunities and Challenges of Utilizing Additive Manufacturing Approaches in Thermal Management of Electrical Machines. *IEEE Access*, **2021**, 9, 36368-36381	3.5	13
199	A Review of Synchronous Reluctance Motor-Drive Advancements. *Sustainability*, **2021**, 13, 729	3.6	16
198	AC Magnetic Loss Reduction of SLM Processed Fe-Si for Additive Manufacturing of Electrical Machines. *Energies*, **2021**, 14, 1241	3.1	6
197	Analysis of Electromagnetic Force Ripple in a Bearingless Synchronous Reluctance Motor. *IEEE Transactions on Magnetics*, **2021**, 57, 1-8	2	0
196	Optimization of a 3D-Printed Permanent Magnet Coupling Using Genetic Algorithm and Taguchi Method. *Electronics (Switzerland)*, **2021**, 10, 494	2.6	5
195	Application of Surrogate Optimization Routine with Clustering Technique for Optimal Design of an Induction Motor. *Energies*, **2021**, 14, 5042	3.1	3
194	Oil Spray Cooling with Hairpin Windings in High-Performance Electric Vehicle Motors **2021**,		1
193	Corrections to "Opportunities and Challenges of Utilizing Additive Manufacturing Approaches in Thermal Management of Electrical Machines" *IEEE Access*, **2021**, 9, 62532-62532	3.5	1
192	Finite-Element Modeling and Characterization of Iron Losses in 12 mm Thick Steel Laminations Including the Effect of Cutting. *IEEE Access*, **2021**, 9, 115710-115718	3.5	1
191	The Cluster Computation-Based Hybrid FEM–Analytical Model of Induction Motor for Fault Diagnostics. *Applied Sciences (Switzerland)*, **2020**, 10, 7572	2.6	7
190	Artificial Intelligence in Monitoring and Diagnostics of Electrical Energy Conversion Systems **2020**,		2
189	A Parallel Estimation System of Stator Resistance and Rotor Speed for Active Disturbance Rejection Control of Six-Phase Induction Motor. *Energies*, **2020**, 13, 1121	3.1	8

188	Analytical thermal model and flow network analysis suitable for open self-ventilated machines. *IET Electric Power Applications*, **2020**, 14, 929-936	1.8	7
187	Experimental Prototype of High-Efficiency Wind Turbine Based on Magnus Effect **2020**,		3
186	Comparison of Anisotropic Energy-Based and Jiles Atherton Models of Ferromagnetic Hysteresis. *IEEE Transactions on Magnetics*, **2020**, 56, 1-7	2	3
185	Modeling of multi-axial stress dependent iron losses in electrical steel sheets. *Journal of Magnetism and Magnetic Materials*, **2020**, 504, 166612	2.8	1
184	Domain decomposition with subdomain pre-processing for finite element modelling of transformers with stranded conductors. *AIP Advances*, **2020**, 10, 015133	1.5	1
183	Finite-Element Modeling of Magnetic Properties Degradation Due to Plastic Deformation. *IEEE Transactions on Magnetics*, **2020**, 56, 1-4	2	4
182	Acoustic Noise Computation of Electrical Motors Using the Boundary Element Method. *Energies*, **2020**, 13, 245	3.1	9
181	Hysteresis Loss Evaluation of Additively Manufactured Soft Magnetic Core **2020**,		3
180	Improved Analytical Model of Induction Machine for Digital Twin Application **2020**,		4
179	Life cycle analysis of electrical motor-drive system based on electrical machine type. *Proceedings of the Estonian Academy of Sciences*, **2020**, 69, 162	1.6	5
178	Thermal Analysis of Salient Pole Synchronous Machines by Multiple Model Planes Approach **2020**,		1
177	Analysis of the Magneto-Mechanical Anisotropy of Steel Sheets in Electrical Applications. *IEEE Transactions on Magnetics*, **2020**, 56, 1-4	2	3
176	Determination of stress dependent magnetostriction from a macroscopic magneto-mechanical model and experimental magnetization curves. *Journal of Magnetism and Magnetic Materials*, **2020**, 500, 166299	2.8	4
175	Effects of stator core welding on an induction machine Measurements and modeling. *Journal of Magnetism and Magnetic Materials*, **2020**, 499, 166280	2.8	4
174	Magnus Wind Turbine: Finite Element Analysis and Control System **2020**,		1
173	Hysteresis Measurements and Numerical Losses Segregation of Additively Manufactured Silicon Steel for 3D Printing Electrical Machines. *Applied Sciences (Switzerland)*, **2020**, 10, 6515	2.6	14
172	Development of analytical thermal analysis tool for synchronous reluctance motors. *IET Electric Power Applications*, **2020**, 14, 1828-1836	1.8	2
171	Bearing Fault Analysis of BLDC Motor for Electric Scooter Application. *Designs*, **2020**, 4, 42	1.8	7

170	Representation of anisotropic magnetic characteristic observed in a non-oriented silicon steel sheet. *AIP Advances*, **2020**, 10, 065222	1.5	2
169	Parameter Estimation of Inter-Laminar Fault-Region in Laminated Sheets Through Inverse Approach. *Energies*, **2020**, 13, 3251	3.1	
168	A constraint-based optimization technique for estimating physical parameters of Jiles Atherton hysteresis model. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2020**, 39, 1281-1298	0.7	5
167	Modified winding function-based model of squirrel cage induction motor for fault diagnostics. *IET Electric Power Applications*, **2020**, 14, 1722-1734	1.8	17
166	Effect of Laser Cutting on Core Losses in Electrical Machines Measurements and Modeling. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 7354-7363	8.9	9
165	Hilbert Transform, an Effective Replacement of Park's Vector Modulus for the Detection of Rotor Faults **2019**,		3
164	Harmonics Distortion in Inverter-Fed Motor-Drive Systems: Case Study **2019**,		1
163	Technologies for Additive Manufacturing of Electrical Machines **2019**,		2
162	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	0.4	5
161	Flexible identification procedure for thermodynamic constitutive models for magnetostrictive materials. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2019**, 475, 20180280	2.4	2
160	A Novel Vector Control Strategy for a Six-Phase Induction Motor with Low Torque Ripples and Harmonic Currents. *Energies*, **2019**, 12, 1102	3.1	11
159	Winding Function Based Analytical Model of Squirrel Cage Induction Motor for Fault Diagnostics **2019**,		2
158	Rotational Single Sheet Tester for Multiaxial Magneto-Mechanical Effects in Steel Sheets. *IEEE Transactions on Magnetics*, **2019**, 55, 1-10	2	11
157	Effect of multi-axial stress on iron losses of electrical steel sheets. *Journal of Magnetism and Magnetic Materials*, **2019**, 469, 19-27	2.8	26
156	Homogenization of Multiscale Eddy Current Problem by Localized Orthogonal Decomposition Method. *IEEE Transactions on Magnetics*, **2019**, 55, 1-4	2	3
155	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	1
154	Hybrid FEA-Simulink Modelling of Permanent Magnet Assisted Synchronous Reluctance Motor with Unbalanced Magnet Flux **2019**,		3
153	Challenges of Additive Manufacturing of Electrical Machines **2019**,		14

152	Rotor Fault Diagnostic of Inverter Fed Induction Motor Using Frequency Analysis **2019**,		4
151	Improving Legibility of Motor Current Spectrum for Broken Rotor Bars Fault Diagnostics. *Electrical, Control and Communication Engineering*, **2019**, 15, 1-8	0.7	5
150	Determination of Heat Transfer Coefficient for the Air Forced Cooling Over a Flat Side of Coil. *Electrical, Control and Communication Engineering*, **2019**, 15, 15-20	0.7	2
149	Improved sampling algorithm for stochastic modelling of random-wound electrical machines. *Journal of Engineering*, **2019**, 2019, 3976-3980	0.7	3
148	Analysis of the Local and Global Forces Acting on the Coil Structure of a Modular Slotless Permanent Magnet Generator. *Electrical, Control and Communication Engineering*, **2019**, 15, 9-14	0.7	
147	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	0.4	2
146	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	4
145	Effect of Magnetic Forces and Magnetostriction on the Stator Vibrations of a Bearingless Synchronous Reluctance Motor. *IEEE Transactions on Magnetics*, **2019**, 55, 1-4	2	6
144	Power Losses Analysis in Thermal Design of a Synchronous Reluctance Motor **2019**,		1
143	Effect of Different Cutting Techniques on Magnetic Properties of Grain Oriented Steel Sheets and Axial Flux Machines **2019**,		4
142	Review of the Analytical Flow Model to Predict the Hydraulic Behaviour in Electrical Machine **2019**,		1
141	Comparative study of inner and outer rotor bearingless synchronous reluctance motors. *Journal of Engineering*, **2019**, 2019, 4375-4379	0.7	1
140	Broken rotor bar fault detection of the grid and inverter-fed induction motor by effective attenuation of the fundamental component. *IET Electric Power Applications*, **2019**, 13, 2005-2014	1.8	28
139	Thermal Analysis of Totally Enclosed Fan Cooled Synchronous Reluctance Motor-state of art **2019**,		2
138	Electrical Resistivity of Additively Manufactured Silicon Steel for Electrical Machine Fabrication **2019**,		4
137	A Simple and Efficient Quasi-3D Magnetic Equivalent Circuit for Surface Axial Flux Permanent Magnet Synchronous Machines. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 8318-8333	8.9	27
136	Effect of Punching the Electrical Sheets on Optimal Design of a Permanent Magnet Synchronous Motor. *IEEE Transactions on Magnetics*, **2018**, 54, 1-4	2	9
135	Mixed-Order Finite-Element Modeling of Magnetic Material Degradation Due to Cutting. *IEEE Transactions on Magnetics*, **2018**, 54, 1-8	2	12

134	Orthogonal Interpolation Method for Order Reduction of a Synchronous Machine Model. *IEEE Transactions on Magnetics*, **2018**, 54, 1-6	2	8
133	Comparative study of field-oriented control model in application for induction and synchronous reluctance motors for life-cycle analysis **2018**,		2
132	Induction machine fault detection using smartphone recorded audible noise. *IET Science, Measurement and Technology*, **2018**, 12, 554-560	1.5	26
131	Natural convection from flat side's of coil system **2018**,		4
130	Thermographic Measurement and Simulation of Power Losses Due to Interlaminar Contacts in Electrical Sheets. *IEEE Transactions on Instrumentation and Measurement*, **2018**, 67, 2628-2634	5.2	5
129	Review of Electrical Machine Diagnostic Methods Applicability in the Perspective of Industry 4.0. *Electrical, Control and Communication Engineering*, **2018**, 14, 108-116	0.7	7
128	A Survey of Broken Rotor Bar Fault Diagnostic Methods of Induction Motor. *Electrical, Control and Communication Engineering*, **2018**, 14, 117-124	0.7	6
127	Re-Use and Recycling of Different Electrical Machines. *Latvian Journal of Physics and Technical Sciences*, **2018**, 55, 13-23	0.5	4
126	Computation of Hysteresis Torque and Losses in a Bearingless Synchronous Reluctance Machine. *IEEE Transactions on Magnetics*, **2018**, 54, 1-4	2	6
125	Steady-State Thermal Model of a Synchronous Reluctance Motor **2018**,		3
124	Harmonic Spectrum Analysis of Induction Motor With Broken Rotor Bar Fault **2018**,		2
123	Loss Model for the Effects of Steel Cutting in Electrical Machines **2018**,		4
122	Analytical Model Including Rotor Eccentricity for Bearingless Synchronous Reluctance Motors **2018**,		2
121	Flux-Weakening Control for IPMSM Employing Model Order Reduction **2018**,		2
120	Thermal Analysis of a SynRM Using a Thermal Network and a Hybrid Model **2018**,		7
119	A High-Performance Open-Source Finite Element Analysis Library for Magnetics in MATLAB **2018**,		6
118	Broken Rotor Bar Fault Diagnostic of Inverter Fed Induction Motor Using FFT, Hilbert and Park's Vector Approach **2018**,		10
117	Determination of natural convection heat transfer coefficient over the fin side of a coil system. *International Journal of Heat and Mass Transfer*, **2018**, 126, 677-682	4.9	9

116	Hybrid thermal model of a synchronous reluctance machine. *Case Studies in Thermal Engineering*, **2018**, 12, 381-389	5.6	7
115	Analysis of the Vibration Magnitude of an Induction Motor With Different Numbers of Broken Bars. *IEEE Transactions on Industry Applications*, **2017**, 53, 2711-2720	4.3	34
114	Computation of Magnetic Forces Using Degenerated Air-Gap Element. *IEEE Transactions on Magnetics*, **2017**, 53, 1-4	2	2
113	Constrained Algorithm for the Selection of Uneven Snapshots in Model Order Reduction of a Bearingless Motor. *IEEE Transactions on Magnetics*, **2017**, 53, 1-4	2	7
112	Domain Decomposition Approach for Efficient Time-Domain Finite-Element Computation of Winding Losses in Electrical Machines. *IEEE Transactions on Magnetics*, **2017**, 53, 1-9	2	10
111	Modeling the Effect of Multiaxial Stress on Magnetic Hysteresis of Electrical Steel Sheets: A Comparison. *IEEE Transactions on Magnetics*, **2017**, 53, 1-4	2	11
110	Model for Stress-Dependent Hysteresis in Electrical Steel Sheets Including Orthotropic Anisotropy. *IEEE Transactions on Magnetics*, **2017**, 53, 1-4	2	5
109	Magneto-mechanical modeling of electrical steel sheets. *Journal of Magnetism and Magnetic Materials*, **2017**, 439, 82-90	2.8	24
108	Reduced Basis Finite Element Modeling of Electrical Machines with Multiconductor Windings. *IEEE Transactions on Industry Applications*, **2017**, 53, 4252-4259	4.3	1
107	Modelling of magnetic and electric circuits. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2017**, 36, 578-579	0.7	
106	Modelling anisotropy in non-oriented electrical steel sheet using vector Jiles Atherton model. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2017**, 36, 764-773	0.7	4
105	Model Order Reduction of Electrical Machines With Multiple Inputs. *IEEE Transactions on Industry Applications*, **2017**, 53, 3355-3360	4.3	8
104	Steady state and transient thermal analysis of the stator coil of a permanent magnet generator **2017**,		5
103	Influence of the rotor eccentricity on the torque of a cage induction machine. *Archives of Electrical Engineering*, **2017**, 66, 383-396		3
102	A review of electrical machine design processes from the standpoint of software selection **2017**,		5
101	Adjusted electrical equivalent circuit model of induction motor with broken rotor bars and eccentricity faults **2017**,		6
100	Determination of forced convection coefficient over a flat side of coil **2017**,		10
99	Experimental and theoretical study of interlaminar eddy current loss in laminated cores **2017**,		0

98	EMSA 2016 Publications Chairs' Preface. *IEEE Transactions on Magnetics*, **2017**, 53, 1-3	2	
97	Influence of Magnet Material Selection on the Design of Slow-Speed Permanent Magnet Synchronous Generators for Wind Applications. *Elektronika Ir Elektrotechnika*, **2017**, 23,	1.7	4
96	Model of Magnetic Anisotropy of Non-Oriented Steel Sheets for Finite-Element Method. *IEEE Transactions on Magnetics*, **2016**, 52, 1-4	2	5
95	Armature Reaction Field and Inductance Calculation of Ironless BLDC Motor. *IEEE Transactions on Magnetics*, **2016**, 52, 1-14	2	8
94	A 2D magnetic and 3D mechanical coupled finite element model for the study of the dynamic vibrations in the stator of induction motors. *Mechanical Systems and Signal Processing*, **2016**, 66-67, 640-656	7.8	20
93	Mechanical vibration analysis of induction machine under dynamic rotor eccentricity **2016**,		3
92	Multiaxial magneto-mechanical modelling of electrical machines with hysteresis **2016**,		3
91	Computation of stator vibration of an induction motor using nodal magnetic forces **2016**,		6
90	Coupled field and space-vector equations of bearingless synchronous reluctance machine **2016**,		4
89	Thermal analysis of electromagnetic levitation coil **2016**,		5
88	Review of thermal analysis of permanent magnet assisted synchronous reluctance machines **2016**,		11
87	Anisotropic model for Villari effect in non-oriented electrical steel sheets **2016**,		1
86	Lifecycle Analysis of Different Motors from the Standpoint of Environmental Impact. *Latvian Journal of Physics and Technical Sciences*, **2016**, 53, 37-46	0.5	8
85	Modeling of Hysteresis Losses in Ferromagnetic Laminations Under Mechanical Stress. *IEEE Transactions on Magnetics*, **2016**, 52, 1-4	2	26
84	Coupled Magneto-Mechanical Analysis of Iron Sheets Under Biaxial Stress. *IEEE Transactions on Magnetics*, **2016**, 52, 1-4	2	11
83	Research on the Performances and Parameters of Interior PMSM Used for Electric Vehicles. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 3533-3545	8.9	223
82	Monte Carlo Analysis of Circulating Currents in Random-Wound Electrical Machines. *IEEE Transactions on Magnetics*, **2016**, 52, 1-12	2	15
81	Analytical Solution of the Magnetic Field and EMF Calculation in Ironless BLDC Motor. *IEEE Transactions on Magnetics*, **2016**, 52, 1-10	2	14

80	Review of loss calculation reduction control methods of permanent magnet assisted reluctance drive **2016**,		5
79	Modelling the effect of multiaxial stress on magnetic hysteresis of electrical steel sheets: A comparison **2016**,		1
78	Environmental and life cycle cost analysis of a synchronous reluctance machine **2016**,		4
77	Computation of magnetic forces using degenerated airgap element **2016**,		1
76	Combined FE and Particle Swarm algorithm for optimization of high speed PM synchronous machine. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2015**, 34, 475-484	0.7	7
75	Identification of Synchronous Machine Magnetization Characteristics From Calorimetric Core-Loss and No-Load Curve Measurements. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	6
74	Uncertainty propagation of iron loss from characterization measurements to computation of electrical machines. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2015**, 34, 624-636	0.7	1
73	Condition monitoring of electrical machines and its relation to industrial internet **2015**,		4
72	Environmental considerations in lifecycle based optimization of electrical machines **2015**,		1
71	Homogenization Technique for Axially Laminated Rotors of Synchronous Reluctance Machines. *IEEE Transactions on Magnetics*, **2015**, 51, 1-6	2	12
70	Effect of PM parameters variability on the operation quantities of a wind generator **2015**,		4
69	Coupled wave-equation and eddy-current model for modelling and measuring propagating stress-waves. *Archives of Electrical Engineering*, **2015**, 64, 215-226		1
68	Vibration and stator current spectral analysis of induction machine operating under dynamic eccentricity **2015**,		3
67	Finite element analysis for bearingless operation of a multi flux barrier synchronous reluctance motor **2015**,		4
66	Estimation of additional losses due to random contacts at the edges of stator of an electrical machine. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2015**, 34, 1501-1510	0.7	6
65	Effect of magnet materials on optimal design of a high speed PMSM **2015**,		5
64	Proper orthogonal decomposition for order reduction of permanent magnet machine model **2015**,		3
63	Analytical model for magnetic anisotropy of non-oriented steel sheets. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2015**, 34, 1475-1488	0.7	5

62	Anisotropic and Strain-Dependent Model of Magnetostriction in Electrical Steel Sheets. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	14
61	3D permeance model of induction machines taking into account saturation effects and its connection with stator current and shaft speed spectra. *IET Electric Power Applications*, **2015**, 9, 20-29	1.8	7
60	Effect of Mechanical Stress on Excess Loss of Electrical Steel Sheets. *IEEE Transactions on Magnetics* , **2015**, 51, 1-4	2	25
59	Necessity for implementation of inverse problem theory in electric machine fault diagnosis **2015**,		3
58	Implementation of different magnetic materials in outer rotor PM generator **2015**,		1
57	Comparison of Finite-Element-Based State-Space Models for PM Synchronous Machines. *IEEE Transactions on Energy Conversion*, **2014**, 29, 535-543	5.4	10
56	Comparative study of slow-speed slotless synchronous generator using SmCo and NdFeB permanent magnets **2014**,		4
55	A 2D FEM analysis of electromechanical signatures in induction motors under dynamic eccentricity. *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields*, **2014**, 27, 555-571	1	5
54	Effect of Rotor Pole-Shoe Construction on Losses of Inverter-Fed Synchronous Motors. *IEEE Transactions on Industry Applications*, **2014**, 50, 208-217	4.3	4
53	Design of slow-speed slotless SmCo permanent magnet synchronous generator for wind applications **2014**,		2
52	Segregation of Iron Losses From Rotational Field Measurements and Application to Electrical Machine. *IEEE Transactions on Magnetics*, **2014**, 50, 893-896	2	25
51	Comprehensive computations of the response of faulty cage induction machines **2014**,		12
50	Possible manufacturing tolerance faults in design and construction of low speed slotless permanent magnet generator **2014**,		4
49	Cost efficiency analysis of slow-speed slotless permanent magnet synchronous generator using different magnetic materials **2014**,		2
48	Impact of magnet losses on optimal design of a high speed synchronous machine **2014**,		2
47	Changing of Magnetic Flux Density Distribution in a Squirrel-Cage Induction Motor with Broken Rotor Bars. *Elektronika Ir Elektrotechnika*, **2014**, 20,	1.7	2
46	Three-Dimensional Eddy-Current Analysis in Steel Laminations of Electrical Machines as a Contribution for Improved Iron Loss Modeling. *IEEE Transactions on Industry Applications*, **2013**, 49, 2044-2052	4.3	26
45	Iron Losses, Magnetoelasticity and Magnetostriction in Ferromagnetic Steel Laminations. *IEEE Transactions on Magnetics*, **2013**, 49, 2041-2044	2	9

44	Lifecycle-based design and optimization of electrical motor-drives - Challenges and possibilities **2013**,		3
43	Broken bar indicators for cage induction motors and their relationship with the number of consecutive broken bars. *IET Electric Power Applications*, **2013**, 7, 633-642	1.8	24
42	Experimental determination and numerical evaluation of core losses in a 150-kVA wound-field synchronous machine. *IET Electric Power Applications*, **2013**, 7, 97-105	1.8	13
41	Magnetomechanical coupled FE simulations of rotating electrical machines. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2013**, 32, 1484-1499	0.7	4
40	Combined FE and two dimensional spectral analysis of broken cage faults in induction motors **2013**,		6
39	Magnetic properties of reduced Dy NdFeB permanent magnets and their usage in electrical machines **2013**,		12
38	Modeling of Losses Due to Inter-Laminar Short-Circuit Currents in Lamination Stacks. *Electrical, Control and Communication Engineering*, **2013**, 3, 31-36	0.7	5
37	Numerical Investigation of the Effects of Loading and Slot Harmonics on the Core Losses of Induction Machines. *IEEE Transactions on Magnetics*, **2012**, 48, 1063-1066	2	35
36	3-D eddy current analysis in steel laminations of electrical machines as a contribution for improved iron loss modeling **2012**,		4
35	Calorimetric system for measurement of synchronous machine losses. *IET Electric Power Applications*, **2012**, 6, 286	1.8	10
34	Importance of Iron-Loss Modeling in Simulation of Wound-Field Synchronous Machines. *IEEE Transactions on Magnetics*, **2012**, 48, 2495-2504	2	30
33	Effect of rotor pole-shoe construction on losses of inverter-fed synchronous motors **2012**,		2
32	Analysis of the eccentricity in a low-speed slotless permanent-magnet wind generator **2012**,		5
31	Detection of broken bars in frequency converter fed induction motor using Park's vector approach **2012**,		2
30	Contribution of Maxwell Stress in Air on the Deformations of Induction Machines. *Journal of Electrical Engineering and Technology*, **2012**, 7, 336-341	1.4	6
29	Inclusion of hysteresis and eddy current losses in nonlinear time-domain inductance models **2011**,		4
28	Model of laminated ferromagnetic cores for loss prediction in electrical machines. *IET Electric Power Applications*, **2011**, 5, 580	1.8	39
27	Modelling eddy-current in laminated non-linear magnetic circuits. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2011**, 30, 1082-1091	0.7	4

26	Improving Loss Properties of the Mayergoyz Vector Hysteresis Model. *IEEE Transactions on Magnetics*, **2010**, 46, 918-924	2	50
25	Permanent magnets models and losses in 2D FEM simulation of electrical machines **2010**,		11
24	A posteriori iron loss computation with a vector hysteresis model. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2010**, 29, 1493-1503	0.7	5
23	Rotordynamic analysis of different rotor structures for high-speed permanent-magnet electrical machines. *IET Electric Power Applications*, **2010**, 4, 516	1.8	19
22	Computation of additional losses due to rotor eccentricity in electrical machines. *IET Electric Power Applications*, **2010**, 4, 259	1.8	24
21	Interdependence of Hysteresis and Eddy-Current Losses in Laminated Magnetic Cores of Electrical Machines. *IEEE Transactions on Magnetics*, **2010**, 46, 306-309	2	34
20	FEM for Directly Coupled Magneto-Mechanical Phenomena in Electrical Machines. *IEEE Transactions on Magnetics*, **2010**, 46, 2923-2926	2	51
19	On the Importance of Incorporating Iron Losses in the Magnetic Field Solution of Electrical Machines. *IEEE Transactions on Magnetics*, **2010**, 46, 3101-3104	2	23
18	Inclusion of Eddy Currents in Laminations in Two-Dimensional Finite Element Analysis. *IEEE Transactions on Magnetics*, **2010**, 46, 2915-2918	2	16
17	Comparative thermal analysis of different rotor types for a high-speed permanent-magnet electrical machine. *IET Electric Power Applications*, **2009**, 3, 279	1.8	34
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