Anouar Belahcen

List of Publications by Citations

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	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
222	FEM for Directly Coupled Magneto-Mechanical Phenomena in Electrical Machines. *IEEE Transactions on Magnetics*, **2010**, 46, 2923-2926	2	51
221	Improving Loss Properties of the Mayergoyz Vector Hysteresis Model. *IEEE Transactions on Magnetics*, **2010**, 46, 918-924	2	50
220	Signatures of electrical faults in the force distribution and vibration pattern of induction motors. *IET Electric Power Applications*, **2006**, 153, 523		42
219	Vibrations of rotating electrical machines due to magnetomechanical coupling and magnetostriction. *IEEE Transactions on Magnetics*, **2006**, 42, 971-974	2	40
218	Model of laminated ferromagnetic cores for loss prediction in electrical machines. *IET Electric Power Applications*, **2011**, 5, 580	1.8	39
217	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
216	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
215	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
214	Interdependence of Hysteresis and Eddy-Current Losses in Laminated Magnetic Cores of Electrical Machines. *IEEE Transactions on Magnetics*, **2010**, 46, 306-309	2	34
213	A Fast Fixed-Point Method for Solving Magnetic Field Problems in Media of Hysteresis. *IEEE Transactions on Magnetics*, **2008**, 44, 1214-1217	2	32
212	Air-gap force distribution and vibration pattern of Induction motors under dynamic eccentricity. *Electrical Engineering*, **2008**, 90, 209-218	1.5	31
211	Importance of Iron-Loss Modeling in Simulation of Wound-Field Synchronous Machines. *IEEE Transactions on Magnetics*, **2012**, 48, 2495-2504	2	30
210	Locally Convergent Fixed-Point Method for Solving Time-Stepping Nonlinear Field Problems. *IEEE Transactions on Magnetics*, **2007**, 43, 3969-3975	2	29
209	Magnetoelastic coupling in rotating electrical machines. *IEEE Transactions on Magnetics*, **2005**, 41, 1624-1627	2	29
208	Multiphysics thermal design of a high-speed permanent-magnet machine. *Applied Thermal Engineering*, **2009**, 29, 2693-2700	5.8	28
207	Comprehensive Dynamic Loss Model of Electrical Steel Applied to FE Simulation of Electrical Machines. *IEEE Transactions on Magnetics*, **2008**, 44, 886-889	2	28

206	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
205	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
204	Modeling of Hysteresis Losses in Ferromagnetic Laminations Under Mechanical Stress. *IEEE Transactions on Magnetics*, **2016**, 52, 1-4	2	26
203	Induction machine fault detection using smartphone recorded audible noise. *IET Science, Measurement and Technology*, **2018**, 12, 554-560	1.5	26
202	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
201	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	4.2	26
200	Segregation of Iron Losses From Rotational Field Measurements and Application to Electrical Machine. *IEEE Transactions on Magnetics*, **2014**, 50, 893-896	2	25
199	Effect of Mechanical Stress on Excess Loss of Electrical Steel Sheets. *IEEE Transactions on Magnetics* , **2015**, 51, 1-4	2	25
198	Magneto-mechanical modeling of electrical steel sheets. *Journal of Magnetism and Magnetic Materials*, **2017**, 439, 82-90	2.8	24
197	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
196	Computation of additional losses due to rotor eccentricity in electrical machines. *IET Electric Power Applications*, **2010**, 4, 259	1.8	24
195	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
194	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
193	Rotordynamic analysis of different rotor structures for high-speed permanent-magnet electrical machines. *IET Electric Power Applications*, **2010**, 4, 516	1.8	19
192	Efficient magnetodynamic lamination model for two-dimensional field simulation of rotating electrical machines. *Journal of Magnetism and Magnetic Materials*, **2008**, 320, e1006-e1010	2.8	17
191	Modified winding function-based model of squirrel cage induction motor for fault diagnostics. *IET Electric Power Applications*, **2020**, 14, 1722-1734	1.8	17
190	Inclusion of Eddy Currents in Laminations in Two-Dimensional Finite Element Analysis. *IEEE Transactions on Magnetics*, **2010**, 46, 2915-2918	2	16
189	A Review of Synchronous Reluctance Motor-Drive Advancements. *Sustainability*, **2021**, 13, 729	3.6	16

188	Monte Carlo Analysis of Circulating Currents in Random-Wound Electrical Machines. *IEEE Transactions on Magnetics*, **2016**, 52, 1-12	2	15
187	Analytical Solution of the Magnetic Field and EMF Calculation in Ironless BLDC Motor. *IEEE Transactions on Magnetics*, **2016**, 52, 1-10	2	14
186	Challenges of Additive Manufacturing of Electrical Machines **2019**,		14
185	Anisotropic and Strain-Dependent Model of Magnetostriction in Electrical Steel Sheets. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	14
184	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
183	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
182	Magnetodynamic vector hysteresis model of ferromagnetic steel laminations. *Physica B: Condensed Matter*, **2008**, 403, 428-432	2.8	13
181	Opportunities and Challenges of Utilizing Additive Manufacturing Approaches in Thermal Management of Electrical Machines. *IEEE Access*, **2021**, 9, 36368-36381	3.5	13
180	Homogenization Technique for Axially Laminated Rotors of Synchronous Reluctance Machines. *IEEE Transactions on Magnetics*, **2015**, 51, 1-6	2	12
179	Mixed-Order Finite-Element Modeling of Magnetic Material Degradation Due to Cutting. *IEEE Transactions on Magnetics*, **2018**, 54, 1-8	2	12
178	Comprehensive computations of the response of faulty cage induction machines **2014**,		12
177	Magnetic properties of reduced Dy NdFeB permanent magnets and their usage in electrical machines **2013**,		12
176	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
175	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
174	Rotational Single Sheet Tester for Multiaxial Magneto-Mechanical Effects in Steel Sheets. *IEEE Transactions on Magnetics*, **2019**, 55, 1-10	2	11
173	Review of thermal analysis of permanent magnet assisted synchronous reluctance machines **2016**,		11
172	Coupled Magneto-Mechanical Analysis of Iron Sheets Under Biaxial Stress. *IEEE Transactions on Magnetics*, **2016**, 52, 1-4	2	11
171	Permanent magnets models and losses in 2D FEM simulation of electrical machines **2010**,		11

170	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
169	Comparison of Finite-Element-Based State-Space Models for PM Synchronous Machines. *IEEE Transactions on Energy Conversion*, **2014**, 29, 535-543	5.4	10
168	Determination of forced convection coefficient over a flat side of coil **2017**,		10
167	Calorimetric system for measurement of synchronous machine losses. *IET Electric Power Applications*, **2012**, 6, 286	1.8	10
166	Broken Rotor Bar Fault Diagnostic of Inverter Fed Induction Motor Using FFT, Hilbert and Park's Vector Approach **2018**,		10
165	Acoustic Noise Computation of Electrical Motors Using the Boundary Element Method. *Energies*, **2020**, 13, 245	3.1	9
164	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
163	Iron Losses, Magnetoelasticity and Magnetostriction in Ferromagnetic Steel Laminations. *IEEE Transactions on Magnetics*, **2013**, 49, 2041-2044	2	9
162	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
161	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
160	Armature Reaction Field and Inductance Calculation of Ironless BLDC Motor. *IEEE Transactions on Magnetics*, **2016**, 52, 1-14	2	8
159	Model Order Reduction of Electrical Machines With Multiple Inputs. *IEEE Transactions on Industry Applications*, **2017**, 53, 3355-3360	4.3	8
158	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
157	Orthogonal Interpolation Method for Order Reduction of a Synchronous Machine Model. *IEEE Transactions on Magnetics*, **2018**, 54, 1-6	2	8
156	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
155	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
154	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
153	The Cluster Computation-Based Hybrid FEM–Analytical Model of Induction Motor for Fault Diagnostics. *Applied Sciences (Switzerland)*, **2020**, 10, 7572	2.6	7

152	Analytical thermal model and flow network analysis suitable for open self-ventilated machines. *IET Electric Power Applications*, **2020**, 14, 929-936	1.8	7
151	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
150	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
149	Bearing Fault Analysis of BLDC Motor for Electric Scooter Application. *Designs*, **2020**, 4, 42	1.8	7
148	Real-Time Control of an IPMSM Using Model Order Reduction. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 2005-2014	8.9	7
147	Thermal Analysis of a SynRM Using a Thermal Network and a Hybrid Model **2018**,		7
146	Hybrid thermal model of a synchronous reluctance machine. *Case Studies in Thermal Engineering*, **2018**, 12, 381-389	5.6	7
145	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
144	Computation of stator vibration of an induction motor using nodal magnetic forces **2016**,		6
143	Adjusted electrical equivalent circuit model of induction motor with broken rotor bars and eccentricity faults **2017**,		6
142	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
141	Combined FE and two dimensional spectral analysis of broken cage faults in induction motors **2013**,		6
140	A Survey of Broken Rotor Bar Fault Diagnostic Methods of Induction Motor. *Electrical, Control and Communication Engineering*, **2018**, 14, 117-124	0.7	6
139	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
138	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
137	AC Magnetic Loss Reduction of SLM Processed Fe-Si for Additive Manufacturing of Electrical Machines. *Energies*, **2021**, 14, 1241	3.1	6
136	Computation of Hysteresis Torque and Losses in a Bearingless Synchronous Reluctance Machine. *IEEE Transactions on Magnetics*, **2018**, 54, 1-4	2	6
135	A High-Performance Open-Source Finite Element Analysis Library for Magnetics in MATLAB **2018**,		6

134	Model of Magnetic Anisotropy of Non-Oriented Steel Sheets for Finite-Element Method. *IEEE Transactions on Magnetics*, **2016**, 52, 1-4	2	5
133	Model for Stress-Dependent Hysteresis in Electrical Steel Sheets Including Orthotropic Anisotropy. *IEEE Transactions on Magnetics*, **2017**, 53, 1-4	2	5
132	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
131	Thermal analysis of electromagnetic levitation coil **2016**,		5
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	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
128	Steady state and transient thermal analysis of the stator coil of a permanent magnet generator **2017**,		5
127	A review of electrical machine design processes from the standpoint of software selection **2017**,		5
126	Effect of magnet materials on optimal design of a high speed PMSM **2015**,		5
125	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
124	Analysis of the eccentricity in a low-speed slotless permanent-magnet wind generator **2012**,		5
123	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
122	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
121	**2007**,		5
120	Improving Legibility of Motor Current Spectrum for Broken Rotor Bars Fault Diagnostics. *Electrical, Control and Communication Engineering*, **2019**, 15, 1-8	0.7	5
119	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
118	Properties of electrical steel sheets under strong mechanical stress. *Pollack Periodica*, **2006**, 1, 93-104	0.7	5
117	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

116	A Modified Dynamic Model of Single-Sided Linear Induction Motors Considering Longitudinal and Transversal Effects. *Electronics (Switzerland)*, **2021**, 10, 933	2.6	5
115	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
114	Review of loss calculation reduction control methods of permanent magnet assisted reluctance drive **2016**,		5
113	Optimization of a 3D-Printed Permanent Magnet Coupling Using Genetic Algorithm and Taguchi Method. *Electronics (Switzerland)*, **2021**, 10, 494	2.6	5
112	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
111	Condition monitoring of electrical machines and its relation to industrial internet **2015**,		4
110	Effect of PM parameters variability on the operation quantities of a wind generator **2015**,		4
109	Finite-Element Modeling of Magnetic Properties Degradation Due to Plastic Deformation. *IEEE Transactions on Magnetics*, **2020**, 56, 1-4	2	4
108	Coupled field and space-vector equations of bearingless synchronous reluctance machine **2016**,		4
107	Natural convection from flat side's of coil system **2018**,		4
106	Rotor Fault Diagnostic of Inverter Fed Induction Motor Using Frequency Analysis **2019**,		4
105	Comparative study of slow-speed slotless synchronous generator using SmCo and NdFeB permanent magnets **2014**,		4
104	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
103	Finite element analysis for bearingless operation of a multi flux barrier synchronous reluctance motor **2015**,		4
102	Possible manufacturing tolerance faults in design and construction of low speed slotless permanent magnet generator **2014**,		4
101	3-D eddy current analysis in steel laminations of electrical machines as a contribution for improved iron loss modeling **2012**,		4
100	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
99	Inclusion of hysteresis and eddy current losses in nonlinear time-domain inductance models **2011**,		4

98	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
97	Locally coupled magneto-mechanical model of electrical steel. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2008**, 27, 1451-1462	0.7	4
96	Improved Analytical Model of Induction Machine for Digital Twin Application **2020**,		4
95	Re-Use and Recycling of Different Electrical Machines. *Latvian Journal of Physics and Technical Sciences*, **2018**, 55, 13-23	0.5	4
94	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
93	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
92	Effects of stator core welding on an induction machine Measurements and modeling. *Journal of Magnetism and Magnetic Materials*, **2020**, 499, 166280	2.8	4
91	Environmental and life cycle cost analysis of a synchronous reluctance machine **2016**,		4
90	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
89	Effect of Different Cutting Techniques on Magnetic Properties of Grain Oriented Steel Sheets and Axial Flux Machines **2019**,		4
88	Electrical Resistivity of Additively Manufactured Silicon Steel for Electrical Machine Fabrication **2019**,		4
87	Effects of Manufacturing Processes on Core Losses of Electrical Machines. *IEEE Transactions on Energy Conversion*, **2021**, 36, 197-206	5.4	4
86	Determination of heat transfer coefficient of finned housing of a TEFC variable speed motor. *Electrical Engineering*, **2021**, 103, 1009-1017	1.5	4
85	Loss Model for the Effects of Steel Cutting in Electrical Machines **2018**,		4
84	Hilbert Transform, an Effective Replacement of Park's Vector Modulus for the Detection of Rotor Faults **2019**,		3
83	Experimental Prototype of High-Efficiency Wind Turbine Based on Magnus Effect **2020**,		3
82	Comparison of Anisotropic Energy-Based and Jiles Atherton Models of Ferromagnetic Hysteresis. *IEEE Transactions on Magnetics*, **2020**, 56, 1-7	2	3
81	Mechanical vibration analysis of induction machine under dynamic rotor eccentricity **2016**,		3

80	Multiaxial magneto-mechanical modelling of electrical machines with hysteresis **2016**,		3
79	Homogenization of Multiscale Eddy Current Problem by Localized Orthogonal Decomposition Method. *IEEE Transactions on Magnetics*, **2019**, 55, 1-4	2	3
78	Hybrid FEA-Simulink Modelling of Permanent Magnet Assisted Synchronous Reluctance Motor with Unbalanced Magnet Flux **2019**,		3
77	Lifecycle-based design and optimization of electrical motor-drives - Challenges and possibilities **2013**,		3
76	Influence of the rotor eccentricity on the torque of a cage induction machine. *Archives of Electrical Engineering*, **2017**, 66, 383-396		3
75	Vibration and stator current spectral analysis of induction machine operating under dynamic eccentricity **2015**,		3
74	Proper orthogonal decomposition for order reduction of permanent magnet machine model **2015**,		3
73	Necessity for implementation of inverse problem theory in electric machine fault diagnosis **2015**,		3
72	Hysteresis Loss Evaluation of Additively Manufactured Soft Magnetic Core **2020**,		3
71	Improved sampling algorithm for stochastic modelling of random-wound electrical machines. *Journal of Engineering*, **2019**, 2019, 3976-3980	0.7	3
70	Analysis of the Magneto-Mechanical Anisotropy of Steel Sheets in Electrical Applications. *IEEE Transactions on Magnetics*, **2020**, 56, 1-4	2	3
69	Transient Modeling and Recovery of Non-Stationary Fault Signature for Condition Monitoring of Induction Motors. *Applied Sciences (Switzerland)*, **2021**, 11, 2806	2.6	3
68	Additive Manufacturing and Performance of E-Type Transformer Core. *Energies*, **2021**, 14, 3278	3.1	3
67	Steady-State Thermal Model of a Synchronous Reluctance Motor **2018**,		3
66	Application of Surrogate Optimization Routine with Clustering Technique for Optimal Design of an Induction Motor. *Energies*, **2021**, 14, 5042	3.1	3
65	Computation of Magnetic Forces Using Degenerated Air-Gap Element. *IEEE Transactions on Magnetics*, **2017**, 53, 1-4	2	2
64	Technologies for Additive Manufacturing of Electrical Machines **2019**,		2
63	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

62	Winding Function Based Analytical Model of Squirrel Cage Induction Motor for Fault Diagnostics **2019**,		2
61	Artificial Intelligence in Monitoring and Diagnostics of Electrical Energy Conversion Systems **2020**,		2
60	Comparative study of field-oriented control model in application for induction and synchronous reluctance motors for life-cycle analysis **2018**,		2
59	Design of slow-speed slotless SmCo permanent magnet synchronous generator for wind applications **2014**,		2
58	Cost efficiency analysis of slow-speed slotless permanent magnet synchronous generator using different magnetic materials **2014**,		2
57	Impact of magnet losses on optimal design of a high speed synchronous machine **2014**,		2
56	Effect of rotor pole-shoe construction on losses of inverter-fed synchronous motors **2012**,		2
55	Detection of broken bars in frequency converter fed induction motor using Park's vector approach **2012**,		2
54	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
53	Changing of Magnetic Flux Density Distribution in a Squirrel-Cage Induction Motor with Broken Rotor Bars. *Elektronika Ir Elektrotechnika*, **2014**, 20,	1.7	2
52	Development of analytical thermal analysis tool for synchronous reluctance motors. *IET Electric Power Applications*, **2020**, 14, 1828-1836	1.8	2
51	Representation of anisotropic magnetic characteristic observed in a non-oriented silicon steel sheet. *AIP Advances*, **2020**, 10, 065222	1.5	2
50	Comparison of Model Order Reduction Methods for a Switched Reluctance Machine Characterization. *IEEE Transactions on Magnetics*, **2021**, 57, 1-6	2	2
49	IoT Based Tools for Data Acquisition in Electrical Machines and Robotics **2021**,		2
48	Alternating and rotational loss prediction accuracy of vector Jiles-Atherton model. *Journal of Magnetism and Magnetic Materials*, **2021**, 527, 167690	2.8	2
47	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
46	Thermal Analysis of Totally Enclosed Fan Cooled Synchronous Reluctance Motor-state of art **2019**,		2
45	Additive Manufacturing of Prototype Axial Flux Switched Reluctance Electrical Machine **2021**,		2

44	Harmonic Spectrum Analysis of Induction Motor With Broken Rotor Bar Fault **2018**,		2
43	Analytical Model Including Rotor Eccentricity for Bearingless Synchronous Reluctance Motors **2018**,		2
42	Flux-Weakening Control for IPMSM Employing Model Order Reduction **2018**,		2
41	Reduced Basis Finite Element Modeling of Electrical Machines with Multiconductor Windings. *IEEE Transactions on Industry Applications*, **2017**, 53, 4252-4259	4.3	1
40	Harmonics Distortion in Inverter-Fed Motor-Drive Systems: Case Study **2019**,		1
39	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
38	Environmental considerations in lifecycle based optimization of electrical machines **2015**,		1
37	Modeling of multi-axial stress dependent iron losses in electrical steel sheets. *Journal of Magnetism and Magnetic Materials*, **2020**, 504, 166612	2.8	1
36	Domain decomposition with subdomain pre-processing for finite element modelling of transformers with stranded conductors. *AIP Advances*, **2020**, 10, 015133	1.5	1
35	Anisotropic model for Villari effect in non-oriented electrical steel sheets **2016**,		1
34	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
33	Coupled wave-equation and eddy-current model for modelling and measuring propagating stress-waves. *Archives of Electrical Engineering*, **2015**, 64, 215-226		1
32	Implementation of different magnetic materials in outer rotor PM generator **2015**,		1
31	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
30	AC Losses Analysis Approaches for Electric Vehicle Motors with Hairpin Winding Configuration **2021**,		1
29	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
28	Thermal Analysis of Salient Pole Synchronous Machines by Multiple Model Planes Approach **2020**,		1
27	Magnus Wind Turbine: Finite Element Analysis and Control System **2020**,		1

26	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
25	Modelling the effect of multiaxial stress on magnetic hysteresis of electrical steel sheets: A comparison **2016**,		1
24	Computation of magnetic forces using degenerated airgap element **2016**,		1
23	Power Losses Analysis in Thermal Design of a Synchronous Reluctance Motor **2019**,		1
22	Review of the Analytical Flow Model to Predict the Hydraulic Behaviour in Electrical Machine **2019**,		1
21	Comparative study of inner and outer rotor bearingless synchronous reluctance motors. *Journal of Engineering*, **2019**, 2019, 4375-4379	0.7	1
20	Safe Turn-off Strategy for Electric Drives in Automotive Applications. *IEEE Transactions on Transportation Electrification*, **2021**, 1-1	7.6	1
19	Oil Spray Cooling with Hairpin Windings in High-Performance Electric Vehicle Motors **2021**,		1
18	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
17	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
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