## Thomas G Habetler

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

 112
 3,273
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 papers
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 143
 4,113
 5.5
 5.57

ext. papers ext. citations

avg, IF

L-index

#	Paper	IF	Citations
112	A Survey on Testing and Monitoring Methods for Stator Insulation Systems of Low-Voltage Induction Machines Focusing on Turn Insulation Problems. <i>IEEE Transactions on Industrial Electronics</i> , <b>2008</b> , 55, 4127-4136	8.9	267
111	A Survey of Methods for Detection of Stator-Related Faults in Induction Machines. <i>IEEE Transactions on Industry Applications</i> , <b>2007</b> , 43, 920-933	4.3	185
110	. IEEE Access, <b>2020</b> , 8, 29857-29881	3.5	142
109	Incipient Bearing Fault Detection via Motor Stator Current Noise Cancellation Using Wiener Filter. <i>IEEE Transactions on Industry Applications</i> , <b>2009</b> , 45, 1309-1317	4.3	111
108	Bearing Fault Detection Via Stator Current Noise Cancellation and Statistical Control. <i>IEEE Transactions on Industrial Electronics</i> , <b>2008</b> , 55, 4260-4269	8.9	110
107	Dynamic Eccentricity and Demagnetized Rotor Magnet Detection in Trapezoidal Flux (Brushless DC) Motors Operating Under Different Load Conditions. <i>IEEE Transactions on Power Electronics</i> , <b>2007</b> , 22, 2061-2069	7.2	104
106	An Impedance Identification Approach to Sensitive Detection and Location of Stator Turn-to-Turn Faults in a Closed-Loop Multiple-Motor Drive. <i>IEEE Transactions on Industrial Electronics</i> , <b>2011</b> , 58, 1545-	-1534	98
105	Analytic-Wavelet-Ridge-Based Detection of Dynamic Eccentricity in Brushless Direct Current (BLDC) Motors Functioning Under Dynamic Operating Conditions. <i>IEEE Industrial Electronics Magazine</i> , <b>2007</b> , 54, 1410-1419	6.2	96
104	Detection of Rotor Faults in Brushless DC Motors Operating Under Nonstationary Conditions. <i>IEEE Transactions on Industry Applications</i> , <b>2006</b> , 42, 1464-1477	4.3	96
103	An Open-Switch Fault Diagnosis Method for Single-Phase PWM Rectifier Using a Model-Based Approach in High-Speed Railway Electrical Traction Drive System. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 3816-3826	7.2	95
102	Nonstationary Motor Fault Detection Using Recent Quadratic TimeBrequency Representations. <i>IEEE Transactions on Industry Applications</i> , <b>2008</b> , 44, 735-744	4.3	94
101	Design of a Universal Inductive Charger for Multiple Electric Vehicle Models. <i>IEEE Transactions on Power Electronics</i> , <b>2015</b> , 30, 6378-6390	7.2	85
100	Bearing Condition Monitoring Methods for Electric Machines: A General Review 2007,		79
99	A Fast and Generalized Space Vector Modulation Scheme for Multilevel Inverters. <i>IEEE Transactions on Power Electronics</i> , <b>2014</b> , 29, 5204-5217	7.2	70
98	A Nonintrusive and In-Service Motor-Efficiency Estimation Method Using Air-Gap Torque With Considerations of Condition Monitoring. <i>IEEE Transactions on Industry Applications</i> , <b>2008</b> , 44, 1666-1674	4.3	69
97	Incorporating Non-Intrusive Load Monitoring Into Building Level Demand Response. <i>IEEE Transactions on Smart Grid</i> , <b>2013</b> , 4, 1870-1877	10.7	68
96	Modeling, Design Optimization, and Applications of Switched Reluctance Machines Review. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 2660-2681	4.3	62

95	Real-Time Condition Monitoring of the Electrolytic Capacitors for Power Electronics Applications. <i>IEEE Applied Power Electronics Conference and Exposition</i> , <b>2007</b> ,		57
94	A Remote and Sensorless Stator Winding Resistance Estimation Method for Thermal Protection of Soft-Starter-Connected Induction Machines. <i>IEEE Transactions on Industrial Electronics</i> , <b>2008</b> , 55, 3611-3	s618	55
93	Using PWM-Induced Transient Excitation and Advanced Signal Processing for Zero-Speed Sensorless Control of AC Machines. <i>IEEE Transactions on Industrial Electronics</i> , <b>2010</b> , 57, 365-374	8.9	54
92	A Voltage Sag Supporter Utilizing a PWM-Switched Autotransformer. <i>IEEE Transactions on Power Electronics</i> , <b>2007</b> , 22, 626-635	7.2	53
91	Front-End Electronic Circuit Topology Analysis for Model-Driven Classification and Monitoring of Appliance Loads in Smart Buildings. <i>IEEE Transactions on Smart Grid</i> , <b>2012</b> , 3, 2286-2293	10.7	52
90	Harmonic and Unbalance Compensation Based on Direct Power Control for Electric Railway Systems. <i>IEEE Transactions on Power Electronics</i> , <b>2013</b> , 28, 5823-5831	7.2	52
89	A Sensorless Rotor Temperature Estimator for Induction Machines Based on a Current Harmonic Spectral Estimation Scheme. <i>IEEE Transactions on Industrial Electronics</i> , <b>2008</b> , 55, 407-416	8.9	52
88	Optimum Space Vector Computation Technique for Direct Power Control. <i>IEEE Transactions on Power Electronics</i> , <b>2009</b> , 24, 1637-1645	7.2	51
87	Eliminating Load Oscillation Effects for Rotor Eccentricity Detection in Closed-Loop Drive-Connected Induction Motors. <i>IEEE Transactions on Power Electronics</i> , <b>2007</b> , 22, 1543-1551	7.2	45
86	Condition Monitoring of Power Electronic Circuits Using Artificial Neural Networks. <i>IEEE Transactions on Power Electronics</i> , <b>2009</b> , 24, 2363-2367	7.2	43
85	A review of identification and monitoring methods for electric loads in commercial and residential buildings <b>2010</b> ,		42
84	A Model Reduction Perspective on Thermal Models for Induction Machine Overload Relays. <i>IEEE Transactions on Industrial Electronics</i> , <b>2008</b> , 55, 3525-3534	8.9	41
83	Switching Strategies for Fault Tolerant Operation of Single DC-link Dual Converters. <i>IEEE Transactions on Power Electronics</i> , <b>2012</b> , 27, 509-518	7.2	38
82	Current/Voltage-Based Detection of Faults in Gears Coupled to Electric Motors. <i>IEEE Transactions on Industry Applications</i> , <b>2006</b> , 42, 1412-1420	4.3	38
81	Nonintrusive, Self-Organizing, and Probabilistic Classification and Identification of Plugged-In Electric Loads. <i>IEEE Transactions on Smart Grid</i> , <b>2013</b> , 4, 1371-1380	10.7	37
80	Magnetic Effects of DC Signal Injection on Induction Motors for Thermal Evaluation of Stator Windings. <i>IEEE Transactions on Industrial Electronics</i> , <b>2011</b> , 58, 1479-1489	8.9	34
79	Optimal Electromagnetic-Thermo-Mechanical Integrated Design Candidate Search and Selection for Surface-Mount Permanent-Magnet Machines Considering Load Profiles. <i>IEEE Transactions on Industry Applications</i> , <b>2011</b> , 47, 2460-2468	4.3	33
78	Deep Learning Algorithms for Bearing Fault Diagnostics - A Review <b>2019</b> ,		31

77	Stator Current-Based Bearing Fault Detection Techniques: A General Review 2007,		31
76	A DC Signal Injection-Based Thermal Protection Scheme for Soft-Starter-Connected Induction Motors. <i>IEEE Transactions on Industry Applications</i> , <b>2009</b> , 45, 1351-1358	4.3	26
75	An Active Stator Temperature Estimation Technique for Thermal Protection of Inverter-Fed Induction Motors With Considerations of Impaired Cooling Detection. <i>IEEE Transactions on Industry Applications</i> , <b>2010</b> , 46, 1873-1881	4.3	24
74	Design and implementation of power line sensornet for overhead transmission lines 2009,		22
73	Direct Position Control for Ultrahigh-Speed Switched-Reluctance Machines Based on Low-Cost Nonintrusive Reflective Sensors. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 480-489	4.3	21
72	Improved Sequence Network Model of Wind Turbine Generators for Short-Circuit Studies. <i>IEEE Transactions on Energy Conversion</i> , <b>2012</b> , 27, 968-977	5.4	20
71	A Sensorless Adaptive Stator Winding Temperature Estimator for Mains-Fed Induction Machines With Continuous-Operation Periodic Duty Cycles. <i>IEEE Transactions on Industry Applications</i> , <b>2008</b> , 44, 1533-1542	4.3	20
70	Semi-Supervised Bearing Fault Diagnosis and Classification Using Variational Autoencoder-Based Deep Generative Models. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 6476-6486	4	20
69	A random forest method for real-time price forecasting in New York electricity market 2014,		19
68	A New Concept for Online Surge Testing for the Detection of Winding Insulation Deterioration in Low-Voltage Induction Machines. <i>IEEE Transactions on Industry Applications</i> , <b>2011</b> , 47, 2051-2058	4.3	18
67	Practical Considerations for the Design and Construction of a High-Speed SRM With a Flux-Bridge Rotor. <i>IEEE Transactions on Industry Applications</i> , <b>2015</b> , 51, 4515-4520	4.3	16
66	Direct Power Control of a Dual Converter Operating as a Synchronous Rectifier. <i>IEEE Transactions on Power Electronics</i> , <b>2011</b> , 26, 1410-1417	7.2	15
65	A Review of Separating Mechanical Load Effects from Rotor Faults Detection in Induction Motors <b>2007</b> ,		15
64	Calculating the Electromagnetic Field and Losses in the End Region of a Large Synchronous Generator Under Different Operating Conditions With 3-D Transient Finite-Element Analysis. <i>IEEE Transactions on Industry Applications</i> , <b>2018</b> , 54, 3281-3293	4.3	14
63	Online Surge Testing Applied to an Induction Machine With Emulated Insulation Breakdown. <i>IEEE Transactions on Industry Applications</i> , <b>2013</b> , 49, 1358-1366	4.3	14
62	Error Analysis of Motor-Efficiency Estimation and Measurement 2007,		14
61	A novel rotor design for ultra-high speed switched reluctance machines over 1 million rpm <b>2017</b> ,		13
60	Support vector machine based methods for non-intrusive identification of miscellaneous electric loads <b>2012</b> ,		13

59	A new concept for online surge testing for the detection of winding insulation deterioration 2010,		12	
58	Simplified Control Structure for Current Control of Single Phase Rectifiers Using COT-ANN-PWM.  Neural Networks (IJCNN), International Joint Conference on, 2007,		11	
57	Model-Based Analysis and Quantification of Bearing Faults in Induction Machines. <i>IEEE Transactions on Industry Applications</i> , <b>2020</b> , 56, 2158-2170	4.3	10	
56	High-Strength Rotor Design for Ultra-High Speed Switched Reluctance Machines. <i>IEEE Transactions on Industry Applications</i> , <b>2020</b> , 56, 1432-1442	4.3	10	
55	Overhead conductor thermal dynamics identification by using Echo State Networks 2009,		10	
54	Few-Shot Bearing Fault Diagnosis Based on Model-Agnostic Meta-Learning. <i>IEEE Transactions on Industry Applications</i> , <b>2021</b> , 57, 4754-4764	4.3	10	
53	Autonomous Self-Commissioning Method for Speed-Sensorless-Controlled Induction Machines. <i>IEEE Transactions on Industry Applications</i> , <b>2010</b> , 46, 946-954	4.3	9	
52	Electromagnetic design of an ultra-high speed switched reluctance machine over 1 million rpm <b>2017</b> ,		8	
51	An improved DC-signal-injection method with active torque-ripple mitigation for thermal monitoring of field-oriented-controlled induction motors <b>2015</b> ,		8	
50	A Remote and Sensorless Thermal Protection Scheme for Soft-Starter-Connected Induction Motors <b>2008</b> ,		8	
49	An analysis and discussion of the voltage and current spectrum of claw-pole alternators for fault detection purposes <b>2011</b> ,		7	
48	MLPN based Parameter Estimation to Evaluate Overhead Power Line Dynamic Thermal Rating <b>2009</b> ,		7	
47	Current-based condition monitoring of electrical machines in safety critical applications 2008,		7	
46	Incipient Bearing Fault Detection via Stator Current Noise Cancellation using Wiener Filter 2007,		7	
45	An Enhanced Analytical Calculation of the Phase Inductance of Switched Reluctance Machines. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 1392-1407	4.3	7	
44	Analytical Calculation of the Phase Inductance Profile of Switched Reluctance Machines. <i>IEEE Transactions on Energy Conversion</i> , <b>2019</b> , 34, 1149-1163	5.4	7	
43	Performance evaluation and comparison of multi-objective optimization algorithms for the analytical design of switched reluctance machines. <i>CES Transactions on Electrical Machines and Systems</i> , <b>2017</b> , 1, 58-65	2.3	6	
42	Interpolated FFT for real-time detection of belt slip in automotive electric power generation and storage system <b>2011</b> ,		6	

41	Fast and accurate analytical calculation of the unsaturated phase inductance profile of 6/4 switched reluctance machines <b>2016</b> ,	6
40	Acoustic Modeling and Prediction of Ultra-High Speed Switched Reluctance Machines Based on Finite Element Analysis <b>2019</b> ,	5
39	Practical Considerations in the Design and Manufacture of Ultra-High Speed Switched Reluctance Machines Over 1 Million rpm <b>2019</b> ,	5
38	Practical considerations for the design and construction of a high speed SRM with a flux-bridge rotor <b>2014</b> ,	5
37	A study of designing a universal inductive charger for Electric Vehicles 2013,	5
36	A nonintrusive thermal monitoring method for closed-loop drive-fed induction machines <b>2011</b> ,	5
35	Current-based motor condition monitoring: Complete protection of induction and PM machines <b>2007</b> ,	5
34	A Nonintrusive Induction Motor Stator Resistance Estimation Method using a Soft-Starter <b>2007</b> ,	5
33	Parametric Study for the Design of the End Region of Large Synchronous Generators Based on Three-Dimensional Transient Finite Element Analysis <b>2018</b> ,	5
32	A fast control-integrated and multiphysics-based multi-objective design optimization of switched reluctance machines <b>2017</b> ,	4
31	A survey of electromagnetic IThermal modeling and design optimization of switched reluctance machines <b>2017</b> ,	4
30	Electronic circuit survey for office load monitoring and identification 2012,	4
29	Practical implementation of a remote and sensorless stator resistance-based thermal protection method <b>2008</b> ,	4
28	Methods for thermal protection of medium voltage induction motors IA review 2008,	4
27	Design of a Portable Hand Crank Generating System to Power Remote Off-Grid Communities 2007,	4
26	A Reliable Rotor Eccentricity Detection Scheme for Induction Machines in the Presence of a Position Dependent Load Torque Oscillation <b>2007</b> ,	4
25	A Survey of Multi-Sensor Systems for Online Fault Detection of Electric Machines 2019,	4
24	A multi-objective analytical design approach of switched reluctance machines with integrated active current profile optimization <b>2017</b> ,	3

23	The Effect of Broken Rotor Bar on the Low Frequency Components in the Axial Stray Flux of Induction Motors <b>2019</b> ,		3
22	Design of a universal inductive charger for electric vehicles <b>2014</b> ,		3
21	Direct position control for ultra-high speed switched reluctance machines based on non-contact optical sensors <b>2017</b> ,		3
20	Experimental study on the short-circuit contribution of induction machines 2013,		3
19	Non-Intrusive Efficiency Determination of In-Service Induction Motors using Genetic Algorithm and Air-Gap Torque Methods. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , 2007,		3
18	Electrolytic Capacitor Failure Mechanism Due to Inrush Current. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , <b>2007</b> ,		3
17	A novel online rotor temperature estimator for induction machines based on a cascading motor parameter estimation scheme <b>2005</b> ,		3
16	Current-Based Condition Monitoring and Fault Tolerant Operation for Electric Machines in Automotive Applications <b>2007</b> ,		3
15	Quantification of Rolling- Element Bearing Fault Severity of Induction Machines 2019,		2
14	Random forest based adaptive non-intrusive load identification 2014,		2
13	Sensitivity analysis of the surge test applied to AC machines <b>2011</b> ,		2
12	Assessment of available methods for estimating rotor temperatures of induction motor 2009,		2
11	A stator turn fault tolerant strategy for induction motor drives in safety critical applications		2
10	Analysis, simulation, and experiments of rotor eccentricity in closed-loop drive-connected induction motors <b>2005</b> ,		2
9	Modeling, Implementing and Evaluating of an Advanced Dual Axis Heliostat Drive System. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> ,1-20	2.3	2
8	A Multi-sensor Fusion Scheme for Broken Rotor Bar and Air-gap Eccentricity Detection of Induction Machines <b>2019</b> ,		2
7	Analytical Calculation of the Air-gap Flux Density and Magnetizing Inductance of Synchronous Reluctance Machines <b>2018</b> ,		2
6	Calculating the unsaturated direct and quadrature axes magnetizing inductances of synchronous reluctance machines based on Maxwell's equations and magnetic equivalent circuit 2017,		1

5	Experimental emulation of stator turn insulation breakdown during a surge test <b>2011</b> ,	1
4	A novel cooling condition monitoring method for induction motors based on particle swarm optimization <b>2009</b> ,	1
3	A new method to detect stator turn-to-turn faults in a closed-loop multiple-motor drive system <b>2009</b> ,	1
2	An adaptive noise-cancellation method for detecting generalized roughness bearing faults under dynamic load conditions <b>2009</b> ,	1
1	A novel gate driving scheme for high power PWM and bypass switches. <i>IEICE Electronics Express</i> , <b>2010</b> , 7, 704-710	0.5