

Gerd Bramerdorfer

List of Publications by Year in Descending Order

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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.

64
papers

690
citations

15
h-index

23
g-index

80
ext. papers

1,032
ext. citations

3.8
avg, IF

5.1
L-index

#	Paper	IF	Citations
64	Comprehensive Design and Analysis of an Interior Permanent Magnet Synchronous Machine for Light-Duty Passenger EVs. <i>IEEE Access</i> , 2022 , 10, 819-831	3.5	0
63	A Thermographic Method to Evaluate Different Processes and Assembly Effects on Magnetic Steels. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1	4.3	
62	A computationally efficient surrogate model based robust optimization for permanent magnet synchronous machines. <i>IEEE Transactions on Energy Conversion</i> , 2022 , 1-1	5.4	2
61	Experimental Assessment and Modeling of Losses in Interlocked Magnetic Cores. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1	4.3	0
60	A Permanent Magnet Assembling Approach to Mitigate the Cogging Torque for Permanent Magnet Machines Considering Manufacturing Uncertainties. <i>Energies</i> , 2022 , 15, 2154	3.1	0
59	Multi-objective Design Optimization of a Novel Switched Reluctance Motor with Unequal Alternating Stator Yoke Segments. <i>IEEE Transactions on Transportation Electrification</i> , 2022 , 1-1	7.6	0
58	Studies of Measurement Uncertainties in the Characterization of Soft Magnetic Materials and their Impact on the Electric Machine Performance Prediction 2021 ,		1
57	Multi-Objective Optimization of a Line-Start Synchronous Machine Using a Self-Organizing Algorithm. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-4	2	2
56	Robust Design Optimization of Electrical Machines: Multi-Objective Approach. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 390-401	5.4	11
55	Robust Design Optimization of Electrical Machines: A Comparative Study and Space Reduction Strategy. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 300-313	5.4	7
54	System-Level Robust Design Optimization of a Switched Reluctance Motor Drive System Considering Multiple Driving Cycles. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 348-357	5.4	31
53	Topology Optimization of Rotor Bars Geometry and Arrangement for a Line-Start Permanent Magnet Synchronous Machine. <i>IEEE Access</i> , 2021 , 9, 115192-115204	3.5	2
52	Comparison of Combined Winding Strategies for Radial Non-Salient Bearingless Machines. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	2
51	Robust Design Optimization of Switched Reluctance Motor Drive Systems Based on System-Level Sequential Taguchi Method. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	11
50	Machine Learning for Design Optimization of Electromagnetic Devices: Recent Developments and Future Directions. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 1627	2.6	11
49	Methods to Improve the Cogging Torque Robustness Under Manufacturing Tolerances for the Permanent Magnet Synchronous Machine. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 2152-2162	5.4	6
48	Impact of Tolerances on the Cogging Torque of Tooth-Coil-Winding PMSMs with Modular Stator Core by Means of Efficient Superposition Technique. <i>Electronics (Switzerland)</i> , 2020 , 9, 1594	2.6	3

47	On the Use of the Cumulative Distribution Function for Large-Scale Tolerance Analyses Applied to Electric Machine Design. <i>Stats</i> , 2020 , 3, 412-426	0.9	3
46	Effect of the Manufacturing Impact on the Optimal Electric Machine Design and Performance. <i>IEEE Transactions on Energy Conversion</i> , 2020 , 35, 1935-1943	5.4	9
45	Quantifying the Impact of Tolerance-Affected Parameters on the Performance of Permanent Magnet Synchronous Machines. <i>IEEE Transactions on Energy Conversion</i> , 2020 , 35, 2170-2180	5.4	1
44	Multiobjective electric machine optimization for highest reliability demands. <i>CES Transactions on Electrical Machines and Systems</i> , 2020 , 4, 71-78	2.3	1
43	Measurement-Based Optimization of Thermal Networks for Temperature Monitoring of Outer Rotor PM Machines 2020 ,		2
42	On Modeling the Dynamic Thermal Behavior of Electrical Machines Using Genetic Programming and Artificial Neural Networks. <i>Lecture Notes in Computer Science</i> , 2020 , 319-326	0.9	
41	Striving for the Highest Efficiency Class With Minimal Impact for Induction Motor Manufacturers. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 194-204	4.3	8
40	A General Investigation of the Sensitiveness of Brushless Permanent Magnet Synchronous Machines Considering Magnet Tolerances. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-9	2	3
39	Analysis of a Tooth-Coil Winding Permanent-Magnet Synchronous Machine With an Unequal Teeth Width. <i>IEEE Access</i> , 2020 , 8, 71512-71524	3.5	5
38	More Robust and Reliable Optimized Energy Conversion Facilitated through Electric Machines, Power Electronics and Drives, and Their Control: State-of-the-Art and Trends. <i>IEEE Transactions on Energy Conversion</i> , 2020 , 35, 1997-2012	5.4	8
37	Cogging torque sensitivity considering imperfect magnet positioning for permanent magnet machines of different slot and pole count. <i>CES Transactions on Electrical Machines and Systems</i> , 2020 , 4, 243-251	2.3	5
36	Incorporating the Soft Magnetic Material Degradation to Numerical Simulations. <i>IEEE Transactions on Industry Applications</i> , 2020 , 1-1	4.3	2
35	Robustness criteria for concurrent evaluation of the impact of tolerances in multiobjective electric machine design optimization. <i>CES Transactions on Electrical Machines and Systems</i> , 2020 , 4, 3-12	2.3	4
34	State-of-the-art and future trends in soft magnetic materials characterization with focus on electric machine design [Part 1. <i>TM Technisches Messen</i> , 2019 , 86, 540-552	0.7	2
33	Local Degradation in Soft Magnetic Materials: A Simplified Modeling Approach. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 5897-5905	4.3	12
32	Tolerance Analysis for Electric Machine Design Optimization: Classification, Modeling and Evaluation, and Example. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-9	2	23
31	State-of-the-art and future trends in soft magnetic materials characterization with focus on electric machine design [Part 2. <i>TM Technisches Messen</i> , 2019 , 86, 553-565	0.7	2
30	Surface-Mounted and Flux-Switching PM Structures Trade-off for Automotive Smart Actuators 2019 ,		1

29	Synchronous Reluctance Rotor Design Considerations based on Winding Configuration 2019 ,		3
28	Optimization of Electric Machine Designs - Part II. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 1700-1703	8.9	15
27	. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 7672-7684	8.9	80
26	Design of a rotational iron loss measurement system. <i>TM Technisches Messen</i> , 2018 , 85, 233-243	0.7	4
25	Analytical Modeling and Optimization for Electromagnetic Performances of Fractional-Slot PM Brushless Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 4017-4027	8.9	25
24	Reducing Development Time of Electric Machines with SyMSpace 2018 ,		14
23	Influence of Hysteresis and Eddy Current Losses on Electric Drive Energy Balance in Driving Cycle Operation 2018 ,		2
22	Towards an IE4 Efficiency Class for Induction Motors with Minimal Manufacturer Impact 2018 ,		6
21	Investigation and Modeling of Local Degradation in Soft Magnetic Materials 2018 ,		6
20	Accurate and Easy-to-Obtain Iron Loss Model for Electric Machine Design. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 2530-2537	8.9	29
19	Surrogate-Based Multi-Objective Optimization of Electrical Machine Designs Facilitating Tolerance Analysis. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-11	2	32
18	Computationally Efficient Tolerance Analysis of the Cogging Torque of Brushless PMSMs. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 3387-3393	4.3	14
17	Optimization of Electric Machine Designs Part I. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 9716-9720	8.9	21
16	Cost-optimal machine designs fulfilling efficiency requirements: A comparison of IMs and PMSMs 2017 ,		4
15	Importance of thermal modeling for design optimization scenarios of induction motors 2017 ,		4
14	Sizing procedure of surface mounted PM machines for fast analytical evaluations 2017 ,		3
13	. <i>IEEE Transactions on Industry Applications</i> , 2016 , 52, 4668-4677	4.3	22
12	Design of a measurement system for investigating the magnetic characteristics of soft magnetic materials for non-sinusoidal periodic excitations. <i>TM Technisches Messen</i> , 2016 , 83, 317-327	0.7	4

11	Impact of IM pole count on material cost increase for achieving mandatory efficiency requirements 2016,		5
10	Coupled optimization in MagOpt. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2016 , 230, 291-299	1	7
9	DECMO2: a robust hybrid and adaptive multi-objective evolutionary algorithm. <i>Soft Computing</i> , 2015 , 19, 3551-3569	3.5	35
8	Using FE Calculations and Data-Based System Identification Techniques to Model the Nonlinear Behavior of PMSMs. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 6454-6462	8.9	37
7	Identification of a nonlinear PMSM model using symbolic regression and its application to current optimization scenarios 2014,		16
6	Combined Analytical-Numerical Noise Calculation of Electrical Machines Considering Nonsinusoidal Mode Shapes. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 1407-1415	2	22
5	An Effective Ensemble-Based Method for Creating On-the-Fly Surrogate Fitness Functions for Multi-objective Evolutionary Algorithms 2013,		4
4	Hybridization of multi-objective evolutionary algorithms and artificial neural networks for optimizing the performance of electrical drives. <i>Engineering Applications of Artificial Intelligence</i> , 2013 , 26, 1781-1794	7.2	64
3	A Hybrid Soft Computing Approach for Optimizing Design Parameters of Electrical Drives. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 347-358	0.4	16
2	Analytic determination of cogging torque harmonics of brushless permanent magnet machines 2012,		4
1	Spectral-field design with respect to minimum cogging torque and maximum output power 2010,		1