Gorazd Å tumberger

List of Publications by Year
in descending order

59 papers	1,219 citations
430874 18 h-index	377865 34 g-index
59 all docs	59 docs citations
59 times ranked	1235 citing authors

#	Article	IF	Citations
1	Parametrization of ground-fault relays in MV distribution networks with resonant grounding. International Journal of Electrical Power and Energy Systems, 2022, 143, 108449.	5.5	1
2	Utilization of Active Distribution Network Elements for Optimization of a Distribution Network Operation. Energies, 2021, 14, 3494.	3.1	3
3	A New Regulatory Approach for PV-Based Self-Supply, Validated by a Techno-Economic Assessment: A Case Study for Slovenia. Sustainability, 2021, 13, 1290.	3.2	0
4	Large-scale estimation of buildings' thermal load using LiDAR data. Energy and Buildings, 2021, 231, 110626.	6.7	8
5	Optimisation for large-scale photovoltaic arrays' placement based on Light Detection And Ranging data. Applied Energy, 2020, 263, 114592.	10.1	22
6	Induction Machine Control for a Wide Range of Drive Requirements. Energies, 2020, 13, 175.	3.1	6
7	Sensorless PMSM Drive Implementation by Introduction of Maximum Efficiency Characteristics in Reference Current Generation. Energies, 2019, 12, 3502.	3.1	1
8	Magnetically Nonlinear Dynamic Models of Synchronous Machines and Experimental Methods for Determining their Parameters. Energies, 2019, 12, 3519.	3.1	12
9	Protection of MV Closed-Loop Distribution Networks With Bi-Directional Overcurrent Relays and GOOSE Communications. IEEE Access, 2019, 7, 165884-165896.	4.2	11
10	Time series prediction for EMS with machine learning. , 2019, , .		3
11	Estimation and optimisation of buildings' thermal load using LiDAR data. Building and Environment, 2018, 128, 12-21.	6.9	16
12	Identification of the Heat Equation Parameters for Estimation of a Bare Overhead Conductor's Temperature by the Differential Evolution Algorithm. Energies, 2018, 11, 2061.	3.1	4
13	GPU-based Online Optimization of Low Voltage Distribution Network Operation. IEEE Transactions on Smart Grid, 2017, , 1-1.	9.0	10
14	Intra-Minute Cloud Passing Forecasting Based on a Low Cost IoT Sensor—A Solution for Smoothing the Output Power of PV Power Plants. Sensors, 2017, 17, 1116.	3.8	8
15	Economic and environmental assessment of rooftops regarding suitability for photovoltaic systems installation based on remote sensing data. Energy, 2016, 107, 854-865.	8.8	37
16	Determining roof surfaces suitable for the installation of PV (photovoltaic) systems, based on LiDAR (Light Detection And Ranging) data, pyranometer measurements, and distribution network configuration. Energy, 2016, 96, 404-414.	8.8	17
17	Three-dimensional non-holonomic integrator control design applied to induction motors. , 2015, , .		0
18	The Impact of Iron Core Model on Dynamic Behavior of Three-Phase Power Transformer Dynamic Model. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	6

#	Article	IF	Citations
19	Instantaneous positiveâ€sequence current applied for detecting voltage sag sources. IET Generation, Transmission and Distribution, 2015, 9, 319-327.	2.5	25
20	FÃ¼hrungsregelung fÃ¼r den nichtholonomen Integrator mit Drift. Automatisierungstechnik, 2015, 63, 700-712.	0.8	1
21	Differential Evolution-Based Identification of the Nonlinear Kaplan Turbine Model. IEEE Transactions on Energy Conversion, 2014, 29, 178-187.	5.2	11
22	Usage of a Simplified and Jilesâ€"Atherton Model When Accounting for the Hysteresis Losses Within a Welding Transformer. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	10
23	Buildings roofs photovoltaic potential assessment based on LiDAR (Light Detection And Ranging) data. Energy, 2014, 66, 598-609.	8.8	81
24	Determining the Parameters of a Resistance Spot Welding Transformer Using Differential Evolution. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	7
25	Differential-Evolution-Based Parameter Identification of a Line-Start IPM Synchronous Motor. IEEE Transactions on Industrial Electronics, 2014, 61, 5921-5929.	7.9	45
26	IM Torque Control Schemes Based on Stator Current Vector. IEEE Transactions on Industrial Electronics, 2014, 61, 126-138.	7.9	7
27	Rating of roofsâ€™ surfaces regarding their solar potential and suitability for PV systems, based on LiDAR data. Applied Energy, 2013, 102, 803-812.	10.1	125
28	Comparison between the simplified and the Jilesâ€Atherton model when accounting for the hysteresis losses of a transformer. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2013, 32, 1393-1403.	0.9	4
29	Laboratory realization of a Static VAr compensator. , 2013, , .		2
30	Novel Field-Weakening Control Scheme for Permanent-Magnet Synchronous Machines Based on Voltage Angle Control. IEEE Transactions on Industry Applications, 2012, 48, 2390-2401.	4.9	42
31	Comparison of Induction Motor and Line-Start IPM Synchronous Motor Performance in a Variable-Speed Drive. IEEE Transactions on Industry Applications, 2012, 48, 2341-2352.	4.9	46
32	A contribution to the control of the non-holonomic integrator including drift. Automatica, 2012, 48, 2888-2893.	5.0	5
33	The Impact of the Voltage Generation Method on Acoustic Noise Emissions Caused by a Welding Transformer. IEEE Transactions on Magnetics, 2012, 48, 1669-1672.	2.1	10
34	Non-Holonomy in Induction Machine Torque Control. IEEE Transactions on Control Systems Technology, 2011, 19, 367-375.	5.2	7
35	Calculation of copper losses in resistance spot welding transformer with spaceâ€•and timeâ€dependent current density distribution, FEM and measurements. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2011, 30, 996-1010.	0.9	1
36	Maximum Efficiency Trajectories of a Two-Axis Sun Tracking System Determined Considering Tracking System Consumption. IEEE Transactions on Power Electronics, 2011, 26, 1280-1290.	7.9	82

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37	A novel prediction algorithm for solar angles using solar radiation and Differential Evolution for dual-axis sun tracking purposes. Solar Energy, 2011, 85, 2757-2770.	6.1	66
38	Analyzing the Magnetic Flux Linkage Characteristics of Alternating Current Rotating Machines by Experimental Method. IEEE Transactions on Magnetics, 2011, 47, 2283-2291.	2.1	11
39	Seeking the optimal arrangements of overhead power line conductors with conductor sagging consideration. International Journal of Applied Electromagnetics and Mechanics, 2011, 42, 359-368.	0.6	0
40	Prevention of Iron Core Saturation in Multi-Winding Transformers for DC-DC Converters. IEEE Transactions on Magnetics, 2010, 46, 582-585.	2.1	18
41	Artificial Neural Network Applied for Detection of Magnetization Level in the Magnetic Core of a Welding Transformer. IEEE Transactions on Magnetics, 2010, 46, 634-637.	2.1	14
42	Magnetic Core Model of a Midfrequency Resistance Spot Welding Transformer. IEEE Transactions on Magnetics, 2010, 46, 602-605.	2.1	15
43	Determining a Gas-Discharge Arrester Model's Parameters by Measurements and Optimization. IEEE Transactions on Power Delivery, 2010, 25, 747-754.	4.3	7
44	Improvement of spot welding control system. , 2010, , .		3
45	Torque control of an induction machine based on partial dynamic inversion. , 2009, , .		0
46	Methods for Determining The Status Of MV Switching Devices Using Minimum Cost Criterion. IEEE Transactions on Power Delivery, 2009, 24, 664-671.	4.3	49
47	Generalization of Methods for Voltage-Sag Source Detection Using Vector-Space Approach. IEEE Transactions on Industry Applications, 2009, 45, 2152-2161.	4.9	35
48	The Impact of Voltage Generation on Harmonic Spectra of Current and Flux Density in the Welding Transformer for a Middle Frequency Resistance Spot Welding System. , 2008, , .		4
49	Advanced Control of a Resistance Spot Welding System. IEEE Transactions on Power Electronics, 2008, 23, 144-152.	7.9	39
50	Determining Magnetically Nonlinear Characteristics of Transformers and Iron Core Inductors by Differential Evolution. IEEE Transactions on Magnetics, 2008, 44, 1570-1573.	2.1	23
51	Parameter Identification of the Jilesâ€"Atherton Hysteresis Model Using Differential Evolution. IEEE Transactions on Magnetics, 2008, 44, 1098-1101.	2.1	84
52	Line-Starting Three- and Single-Phase Interior Permanent Magnet Synchronous Motorsâ€"Direct Comparison to Induction Motors. IEEE Transactions on Magnetics, 2008, 44, 4413-4416.	2.1	73
53	Determining Parameters of a Line-Start Interior Permanent Magnet Synchronous Motor Model by the Differential Evolution. IEEE Transactions on Magnetics, 2008, 44, 4385-4388.	2.1	31
54	Design and Finite-Element Analysis of Interior Permanent Magnet Synchronous Motor With Flux Barriers. IEEE Transactions on Magnetics, 2008, 44, 4389-4392.	2.1	31

#	Article	IF	Citations
55	Experimental Method for Determining Magnetically Nonlinear Characteristics of Electric Machines With Magnetically Nonlinear and Anisotropic Iron Core, Damping Windings, and Permanent Magnets. IEEE Transactions on Magnetics, 2008, 44, 4341-4344.	2.1	16
56	Iron Core Saturation of a Welding Transformer in a Medium Frequency Resistance Spot Welding System Caused by the Asymmetric Output Rectifier Characteristics. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	2
57	Magnetically nonlinear dynamic model of synchronous motor with permanent magnets. Journal of Magnetism and Magnetic Materials, 2007, 316, e257-e260.	2.3	13
58	Iron Core Saturation of a Welding Transformer in a Medium Frequency Resistance Spot Welding System Caused by the Asymmetric Output Rectifier Characteristics. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	8
59	Analysis of Cross-Saturation Effects in a Linear Synchronous Reluctance Motor Performed by Finite Elements Method and Measurements. , 2006, , .		1