

# Gorazd Å tumberger

## List of Publications by Year in descending order

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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	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
2	Parameter Identification of the Jilesâ€™ Atherton Hysteresis Model Using Differential Evolution. IEEE Transactions on Magnetics, 2008, 44, 1098-1101.	2.1	84
3	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
4	Buildings roofs photovoltaic potential assessment based on LiDAR (Light Detection And Ranging) data. Energy, 2014, 66, 598-609.	8.8	81
5	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
6	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
7	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
8	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
9	Differential-Evolution-Based Parameter Identification of a Line-Start IPM Synchronous Motor. IEEE Transactions on Industrial Electronics, 2014, 61, 5921-5929.	7.9	45
10	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
11	Advanced Control of a Resistance Spot Welding System. IEEE Transactions on Power Electronics, 2008, 23, 144-152.	7.9	39
12	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
13	Generalization of Methods for Voltage-Sag Source Detection Using Vector-Space Approach. IEEE Transactions on Industry Applications, 2009, 45, 2152-2161.	4.9	35
14	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
15	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
16	Instantaneous positive-sequence current applied for detecting voltage sag sources. IET Generation, Transmission and Distribution, 2015, 9, 319-327.	2.5	25
17	Determining Magnetically Nonlinear Characteristics of Transformers and Iron Core Inductors by Differential Evolution. IEEE Transactions on Magnetics, 2008, 44, 1570-1573.	2.1	23
18	Optimisation for large-scale photovoltaic arraysâ€™ placement based on Light Detection And Ranging data. Applied Energy, 2020, 263, 114592.	10.1	22

#	ARTICLE	IF	CITATIONS
19	Prevention of Iron Core Saturation in Multi-Winding Transformers for DC-DC Converters. IEEE Transactions on Magnetics, 2010, 46, 582-585.	2.1	18
20	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
21	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
22	Estimation and optimisation of buildings' thermal load using LiDAR data. Building and Environment, 2018, 128, 12-21.	6.9	16
23	Magnetic Core Model of a Midfrequency Resistance Spot Welding Transformer. IEEE Transactions on Magnetics, 2010, 46, 602-605.	2.1	15
24	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
25	Magnetically nonlinear dynamic model of synchronous motor with permanent magnets. Journal of Magnetism and Magnetic Materials, 2007, 316, e257-e260.	2.3	13
26	Magnetically Nonlinear Dynamic Models of Synchronous Machines and Experimental Methods for Determining their Parameters. Energies, 2019, 12, 3519.	3.1	12
27	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
28	Differential Evolution-Based Identification of the Nonlinear Kaplan Turbine Model. IEEE Transactions on Energy Conversion, 2014, 29, 178-187.	5.2	11
29	Protection of MV Closed-Loop Distribution Networks With Bi-Directional Overcurrent Relays and GOOSE Communications. IEEE Access, 2019, 7, 165884-165896.	4.2	11
30	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
31	Usage of a Simplified and Jiles's Atherton Model When Accounting for the Hysteresis Losses Within a Welding Transformer. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	10
32	GPU-based Online Optimization of Low Voltage Distribution Network Operation. IEEE Transactions on Smart Grid, 2017, , 1-1.	9.0	10
33	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
34	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
35	Large-scale estimation of buildings' thermal load using LiDAR data. Energy and Buildings, 2021, 231, 110626.	6.7	8
36	Determining a Gas-Discharge Arrester Model's Parameters by Measurements and Optimization. IEEE Transactions on Power Delivery, 2010, 25, 747-754.	4.3	7

#	ARTICLE	IF	CITATIONS
37	Non-Holonomy in Induction Machine Torque Control. IEEE Transactions on Control Systems Technology, 2011, 19, 367-375.	5.2	7
38	Determining the Parameters of a Resistance Spot Welding Transformer Using Differential Evolution. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	7
39	IM Torque Control Schemes Based on Stator Current Vector. IEEE Transactions on Industrial Electronics, 2014, 61, 126-138.	7.9	7
40	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
41	Induction Machine Control for a Wide Range of Drive Requirements. Energies, 2020, 13, 175.	3.1	6
42	A contribution to the control of the non-holonomic integrator including drift. Automatica, 2012, 48, 2888-2893.	5.0	5
43	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
44	Comparison between the simplified and the Jiles-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
45	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
46	Improvement of spot welding control system. , 2010, , .		3
47	Time series prediction for EMS with machine learning. , 2019, , .		3
48	Utilization of Active Distribution Network Elements for Optimization of a Distribution Network Operation. Energies, 2021, 14, 3494.	3.1	3
49	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
50	Laboratory realization of a Static VAr compensator. , 2013, , .		2
51	Analysis of Cross-Saturation Effects in a Linear Synchronous Reluctance Motor Performed by Finite Elements Method and Measurements. , 2006, , .		1
52	Calculation of copper losses in resistance spot welding transformer with space- and time-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
53	Sensorless PMSM Drive Implementation by Introduction of Maximum Efficiency Characteristics in Reference Current Generation. Energies, 2019, 12, 3502.	3.1	1
54	Führungregelung für den nichtholonomen Integrator mit Drift. Automatisierungstechnik, 2015, 63, 700-712.	0.8	1

#	ARTICLE	IF	CITATIONS
55	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
56	Torque control of an induction machine based on partial dynamic inversion. , 2009, , .		0
57	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
58	Three-dimensional non-holonomic integrator control design applied to induction motors. , 2015, , .		0
59	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