

M Talaat

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/467470/publications.pdf>

Version: 2024-02-01

50
papers

890
citations

567281

15
h-index

501196

28
g-index

51
all docs

51
docs citations

51
times ranked

721
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated MFFNN-MVO approach for PV solar power forecasting considering thermal effects and environmental conditions. International Journal of Electrical Power and Energy Systems, 2022, 135, 107570.	5.5	34
2	Experimental and Simulation Study Investigating the Effect of a Transparent Pyramidal Cover on PV Cell Performance. Sustainability, 2022, 14, 2599.	3.2	1
3	FPGA control system technology for integrating the PV/wave/FC hybrid system using ANN optimized by MFO techniques. Sustainable Cities and Society, 2022, 80, 103825.	10.4	13
4	PV solar power forecasting based on hybrid MFFNN-ALO. , 2022, , .		4
5	Field reduction simulation based on covered conductors design in medium voltage lines. Results in Engineering, 2021, 10, 100217.	5.1	3
6	A new approach for integrating wave energy to the grid by an efficient control system for maximum power based on different optimization techniques. International Journal of Electrical Power and Energy Systems, 2021, 128, 106800.	5.5	16
7	Enhancing the photovoltaic system efficiency using porous metallic media integrated with phase change material. Energy, 2021, 225, 120299.	8.8	22
8	Studying The Effect of The Dielectric Barrier Discharge Non- thermal Plasma on Colon Cancer Cell line. International Journal of Thin Film Science and Technology, 2021, 10, 161-168.	0.6	4
9	Integration of fuel cells into an off-grid hybrid system using wave and solar energy. International Journal of Electrical Power and Energy Systems, 2021, 130, 106939.	5.5	24
10	An economic study concerning the cost reduction of the covered transmission conductors based on different optimization techniques. Results in Engineering, 2021, 11, 100262.	5.1	10
11	New approach to breakdown equation in gases based on energy concept from inception stage to arc condition. Vacuum, 2021, 194, 110614.	3.5	0
12	A smart load management system based on the grasshopper optimization algorithm using the under-frequency load shedding approach. Energy, 2020, 190, 116423.	8.8	42
13	Water trees in polyethylene insulated power cables: Approach to water trees initiation mechanism. Electric Power Systems Research, 2020, 180, 106158.	3.6	8
14	Load forecasting based on grasshopper optimization and a multilayer feed-forward neural network using regressive approach. Energy, 2020, 196, 117087.	8.8	78
15	The Characteristics of Dielectric Barrier Discharge Plasma Under the Effect of Parallel Magnetic Field. IEEE Transactions on Plasma Science, 2020, 48, 1022-1029.	1.3	6
16	Operating reserve investigation for the integration of wave, solar and wind energies. Energy, 2020, 197, 117207.	8.8	33
17	Hybrid-cloud-based data processing for power system monitoring in smart grids. Sustainable Cities and Society, 2020, 55, 102049.	10.4	76
18	Advanced automation system for charging electric vehicles based on machine vision and finite element method. IET Electric Power Applications, 2020, 14, 2616-2623.	1.8	15

#	ARTICLE	IF	CITATIONS
19	Efficiency of different optimisation approaches for optimal parameters of the CSM for investigating the onset field due to corona point. IET Generation, Transmission and Distribution, 2020, 14, 1751-1761.	2.5	4
20	Digital image processing for physical basis analysis of electrical failure forecasting in XLPE power cables based on field simulation using finite element method. IET Generation, Transmission and Distribution, 2020, 14, 6703-6714.	2.5	9
21	ANN for Assessment of Energy Consumption of 4 kW PV Modules over a Year Considering the Impacts of Temperature and Irradiance. Sustainability, 2019, 11, 6802.	3.2	15
22	Investigation of transparent pyramidal covers effect to PV power output using detected wireless sensors incident radiation. Measurement: Journal of the International Measurement Confederation, 2019, 136, 775-785.	5.0	4
23	Moth-Flame Algorithm for Accurate Simulation of a Non-Uniform Electric Field in the Presence of Dielectric Barrier. IEEE Access, 2019, 7, 3836-3847.	4.2	17
24	Renewable power integration: Experimental and simulation study to investigate the ability of integrating wave, solar and wind energies. Energy, 2019, 170, 668-682.	8.8	116
25	Numerical and simulation model of the streamer inception at atmospheric pressure under the effect of a non-uniform electric field. Vacuum, 2019, 160, 197-204.	3.5	10
26	Simulation of the electric field and the GPR resulting from vertical-driven rods earthing system in a multi-layers earth structure. Measurement: Journal of the International Measurement Confederation, 2019, 132, 387-401.	5.0	5
27	Effect of electrohydrodynamic stresses in dielectric liquid: simulation study with the aid of single artificial air bubble using level set volume of fluid method. IET Generation, Transmission and Distribution, 2019, 13, 4694-4701.	2.5	0
28	Electric field simulation for uniform and FGM cone type spacer with adhering spherical conducting particle in GIS. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 339-351.	2.9	39
29	Developed optimization technique used for the distribution of U-shaped permittivity for cone type spacer in GIS. Electric Power Systems Research, 2018, 163, 754-766.	3.6	22
30	A hybrid model of an artificial neural network with thermodynamic model for system diagnosis of electrical power plant gas turbine. Engineering Applications of Artificial Intelligence, 2018, 68, 222-235.	8.1	78
31	Experimental and Simulation Study of Wireless Power Transfer Using Resonators With Coupled Electric Fields. IEEE Transactions on Plasma Science, 2018, 46, 2480-2487.	1.3	6
32	Positive streamer in gases: Physical approach from low to high energies. Vacuum, 2018, 156, 469-474.	3.5	11
33	Numerical investigation of the optimal characteristics of a transverse layer of dielectric barrier in a non-uniform electric field. Journal of Physics and Chemistry of Solids, 2018, 121, 27-35.	4.0	11
34	Streamer in air: Broadening and branching. , 2017, , .		0
35	Electrical Characteristics of Nonthermal Gliding Arc Discharge Reactor in Argon and Nitrogen Gases. IEEE Transactions on Plasma Science, 2016, 44, 1155-1159.	1.3	18
36	Assessment of earthing system location for wind turbines using finite element method. Renewable Energy, 2016, 93, 412-423.	8.9	13

#	ARTICLE	IF	CITATIONS
37	Calculation of electrostatically induced field in humans subjected to high voltage transmission lines. Electric Power Systems Research, 2014, 108, 124-133.	3.6	15
38	Use of finite element method for the numerical analysis of eddy current brake. , 2014, , .		8
39	Calculation of electric and magnetic induced fields in humans subjected to electric power lines. Journal of Electrostatics, 2014, 72, 387-395.	1.9	1
40	Electrostatic field calculation in air gaps with a transverse layer of dielectric barrier. Journal of Electrostatics, 2014, 72, 422-427.	1.9	13
41	A numerical model of streamlines in coplanar electrodes induced by non-uniform electric field. Journal of Electrostatics, 2013, 71, 312-318.	1.9	14
42	Short-Term Load Forecasting Using Curve Fitting Prediction Optimized by Genetic Algorithms. International Journal of Energy and Engineering, 2012, 2, 23-28.	2.0	15
43	Analysis of Air Bubble Deformation Subjected to Uniform Electric Field in Liquid Dielectric. International Journal of Electromagnetics and Applications, 2012, 2, 4-10.	0.1	2
44	Software for Calculating the Non-Uniform Electric Field Causing Electrical Tree in Underground Cables. International Journal of Electromagnetics and Applications, 2012, 2, 69-72.	0.1	0
45	A numerical model of investigating the electric field in dielectric liquid. , 2010, , .		2
46	Charge simulation modeling for calculation of electrically induced human body currents. , 2010, , .		3
47	Influence of transverse electric fields on electrical tree initiation in solid insulation. , 2010, , .		4
48	A numerical model of electrical tree growth in solid insulation. IEEE Transactions on Dielectrics and Electrical Insulation, 2009, 16, 1724-1734.	2.9	29
49	A Simulation Model for Electrical Tree in Solid Insulation Using CSM Coupled with GAs. , 2008, , .		9
50	Types of electrical trees in solid insulation under electrical and mechanical energy basis. , 2008, , .		8