

# Engin Karatepe

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

2,730  
citations

236612

25  
h-index

344852

36  
g-index

47  
all docs

47  
docs citations

47  
times ranked

2330  
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial neural network-polar coordinated fuzzy controller based maximum power point tracking control under partially shaded conditions. IET Renewable Power Generation, 2009, 3, 239.	1.7	343
2	Development of a suitable model for characterizing photovoltaic arrays with shaded solar cells. Solar Energy, 2007, 81, 977-992.	2.9	335
3	Neural network based solar cell model. Energy Conversion and Management, 2006, 47, 1159-1178.	4.4	190
4	Automatic fault detection in grid connected PV systems. Solar Energy, 2013, 94, 119-127.	2.9	187
5	Global MPPT Scheme for Photovoltaic String Inverters Based on Restricted Voltage Window Search Algorithm. IEEE Transactions on Industrial Electronics, 2014, 61, 3302-3312.	5.2	164
6	New procedure for fault detection in grid connected PV systems based on the evaluation of current and voltage indicators. Energy Conversion and Management, 2014, 86, 241-249.	4.4	143
7	Monitoring, modelling and simulation of PV systems using LabVIEW. Solar Energy, 2013, 91, 337-349.	2.9	135
8	Simple diagnostic approach for determining of faulted PV modules in string based PV arrays. Solar Energy, 2012, 86, 3364-3377.	2.9	102
9	Analysis of current and voltage indicators in grid connected PV (photovoltaic) systems working in faulty and partial shading conditions. Energy, 2015, 86, 42-50.	4.5	88
10	Voltage based power compensation system for photovoltaic generation system under partially shaded insolation conditions. Energy Conversion and Management, 2008, 49, 2307-2316.	4.4	87
11	An efficient fault diagnosis method for PV systems based on operating voltage-window. Energy Conversion and Management, 2013, 73, 350-360.	4.4	85
12	Polar coordinated fuzzy controller based real-time maximum-power point control of photovoltaic system. Renewable Energy, 2009, 34, 2597-2606.	4.3	73
13	Multiple-distributed generation planning under load uncertainty and different penetration levels. International Journal of Electrical Power and Energy Systems, 2013, 46, 132-144.	3.3	72
14	Performance enhancement of photovoltaic array through string and central based MPPT system under non-uniform irradiance conditions. Energy Conversion and Management, 2012, 62, 131-140.	4.4	69
15	Transmission Expansion Planning for Wind Turbine Integrated Power Systems Considering Contingency. IEEE Transactions on Power Systems, 2016, 31, 1476-1485.	4.6	57
16	Analysis of spatial fixed PV arrays configurations to maximize energy harvesting in BIPV applications. Renewable Energy, 2015, 75, 534-540.	4.3	51
17	Optimal wind turbine sizing to minimize energy loss. International Journal of Electrical Power and Energy Systems, 2013, 53, 656-663.	3.3	50
18	Simple and high-efficiency photovoltaic system under non-uniform operating conditions. IET Renewable Power Generation, 2010, 4, 354.	1.7	46

#	ARTICLE	IF	CITATIONS
19	Voltage band based global MPPT controller for photovoltaic systems. Solar Energy, 2013, 98, 322-334.	2.9	46
20	MILP Approach for Bilevel Transmission and Reactive Power Planning Considering Wind Curtailment. IEEE Transactions on Power Systems, 2017, 32, 652-661.	4.6	44
21	Impact of harmonic limits on PV penetration levels in unbalanced distribution networks considering load and irradiance uncertainty. International Journal of Electrical Power and Energy Systems, 2020, 118, 105780.	3.3	43
22	A new approach to fuzzy wavelet system modeling. International Journal of Approximate Reasoning, 2005, 40, 302-322.	1.9	33
23	Multi-objective transmission expansion planning considering minimization of curtailed wind energy. International Journal of Electrical Power and Energy Systems, 2015, 65, 348-356.	3.3	31
24	A virtual reality study of surrounding obstacles on BIPV systems for estimation of long-term performance of partially shaded PV arrays. Renewable Energy, 2013, 60, 402-414.	4.3	28
25	Coordinated TCSC Allocation and Network Reinforcements Planning With Wind Power. IEEE Transactions on Sustainable Energy, 2017, 8, 1694-1705.	5.9	26
26	Comparison of single- and multiple-distributed generation concepts in terms of power loss, voltage profile, and line flows under uncertain scenarios. Renewable and Sustainable Energy Reviews, 2015, 48, 317-327.	8.2	25
27	Convergence of rule-of-thumb sizing and allocating rules of distributed generation in meshed power networks. Renewable and Sustainable Energy Reviews, 2012, 16, 582-590.	8.2	24
28	Long-term Performance Comparison of Multiple Distributed Generation Allocations Using a Clustering-based Method. Electric Power Components and Systems, 2011, 40, 195-218.	1.0	22
29	Sensorless fault detection method for photovoltaic systems through mapping the inherent characteristics of PV plant site: Simple and practical. Solar Energy, 2021, 216, 96-110.	2.9	19
30	Optimum allocation of FACTS devices under load uncertainty based on penalty functions with genetic algorithm. Electrical Engineering, 2017, 99, 73-84.	1.2	17
31	Power Controller Design for Photovoltaic Generation System under Partially Shaded Insolation Conditions. , 2007, , .		16
32	Fuzzy wavelet network identification of optimum operating point of non-crystalline silicon solar cells. Computers and Mathematics With Applications, 2012, 63, 68-82.	1.4	14
33	Investigation of ANN performance for tracking the optimum points of PV module under partially shaded conditions. , 2010, , .		13
34	Influence of phasor adjustment of harmonic sources on the allowable penetration level of distributed generation. International Journal of Electrical Power and Energy Systems, 2017, 87, 1-15.	3.3	10
35	ANN based Real-Time Estimation of Power Generation of Different PV Module Types. IEEJ Transactions on Power and Energy, 2009, 129, 783-790.	0.1	7
36	Feasibility of Artificial Neural Network for Maximum Power Point Estimation of Non Crystalline-Si Photovoltaic Modules. , 2009, , .		7

#	ARTICLE	IF	CITATIONS
37	Neural network based distributed generation allocation for minimizing voltage fluctuation due to uncertainty of the output power. , 2011, , .		5
38	Genetic algorithm for weight assignment in optimum planning of multiple distributed generations to minimize energy losses. , 2012, , .		4
39	Transmission expansion planning considering maximizing penetration level of renewable sources. , 2013, , .		4
40	Power system planning for maximizing intermittent energy sources using AC model. , 2013, , .		4
41	Transmission expansion planning for wind turbine integrated power systems considering contingencies. , 2014, , .		3
42	Influence of Inherent Characteristic of PV Plants in Risk-Based Stochastic Dynamic Substation Expansion Planning Under MILP Framework. IEEE Transactions on Power Systems, 2022, 37, 750-763.	4.6	3
43	Comparison of ANN Models for Estimating Optimal Points of Crystalline Silicon Photovoltaic Modules. IEJ Transactions on Power and Energy, 2010, 130, 661-669.	0.1	2
44	Flexible transmission expansion and reactive power planning with wind energy considering N-1 security. , 2017, , .		2
45	Stochastic AC Transmission Expansion Planning: A Chance Constrained Distributed Slack Bus Approach With Wind Uncertainty. IEEE Access, 2022, 10, 56796-56812.	2.6	1
46	Stochastic chance constrained transmission expansion decisions for different investment budgets. , 2018, , .		0
47	Electric Double Layer Capacitor (EDLC) based Mismatching Losses Reduction under Fast-Shaded Conditions of PV Modules. IEJ Transactions on Power and Energy, 2011, 131, 390-396.	0.1	0