Sebastijan Seme

List of Publications by Year
in descending order

37 papers	755 citations	567281 15 h-index	642732 23 g-index
39 all docs	39 docs citations	39 times ranked	810 citing authors

#	Article	IF	Citations
1	Physical, geographical, technical, and economic potential for the optimal configuration of photovoltaic systems using a digital surface model and optimization method. Energy, 2022, 242, 122971.	8.8	7
2	Method for Planning, Optimizing, and Regulating EV Charging Infrastructure. Energies, 2022, 15, 4756.	3.1	2
3	Proportional-Integral Controllers Performance of a Grid-Connected Solar PV System with Particle Swarm Optimization and Ziegler–Nichols Tuning Method. Energies, 2021, 14, 2516.	3.1	18
4	Experimental Validation of a Thermo-Electric Model of the Photovoltaic Module under Outdoor Conditions. Applied Sciences (Switzerland), 2021, 11, 5287.	2.5	5
5	Experimental Validation of a Dynamic Photovoltaic/Thermal Collector Model in Combination with a Thermal Energy Storage Tank. Energies, 2021, 14, 8162.	3.1	2
6	Efficiency of Laser-Shaped Photovoltaic Cells. Energies, 2020, 13, 4747.	3.1	6
7	Solar Photovoltaic Tracking Systems for Electricity Generation: A Review. Energies, 2020, 13, 4224.	3.1	60
8	Analysis of the performance of photovoltaic systems in Slovenia. Solar Energy, 2019, 180, 550-558.	6.1	44
9	A novel concept of linear oscillatory synchronous generator designed for a stirling engine. Energy, 2019, 180, 19-27.	8.8	4
10	Simplified Method for Analyzing the Availability of Rooftop Photovoltaic Potential. Energies, 2019, 12, 4233.	3.1	16
11	Optimal price of electricity of solar power plants and small hydro power plants – Technical and economical part of investments. Energy, 2018, 157, 87-95.	8.8	19
12	Power quality experimental analysis of grid-connected photovoltaic systems in urban distribution networks. Energy, 2017, 139, 1261-1266.	8.8	38
13	Dual-axis photovoltaic tracking system – Design and experimental investigation. Energy, 2017, 139, 1267-1274.	8.8	43
14	The classification of explosion-proof protected induction motor into adequate temperature and efficiency class. AIP Conference Proceedings, 2017, , .	0.4	2
15	Monitoring of the solar power plants and performance ratio. AIP Conference Proceedings, 2017, , .	0.4	0
16	Smart grids and net metering for photovoltaic systems. , 2017, , .		6
17	Electromagnetic and thermal design of totally enclosed non-ventilated synchronous generator with interior permanent magnets. , 2017, , .		4
18	Quality assessment of used materials for pressure vessel design of stirling engine prototype. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
19	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
20	A novel prediction algorithm for solar angles using second derivative of the energy for photovoltaic sun tracking purposes. Solar Energy, 2016, 137, 201-211.	6.1	24
21	Energy Production of Different Types and Orientations of Photovoltaic Systems Under Outdoor Conditions. Journal of Solar Energy Engineering, Transactions of the ASME, 2015, 137, .	1.8	5
22	Buildings roofs photovoltaic potential assessment based on LiDAR (Light Detection And Ranging) data. Energy, 2014, 66, 598-609.	8.8	81
23	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
24	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
25	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
26	Generalization of Methods for Voltage-Sag Source Detection Using Vector-Space Approach. IEEE Transactions on Industry Applications, 2009, 45, 2152-2161.	4.9	35
27	Determining Magnetically Nonlinear Characteristics of Transformers and Iron Core Inductors by Differential Evolution. IEEE Transactions on Magnetics, 2008, 44, 1570-1573.	2.1	23
28	Comparison of the Shading Influence on PV Modules of Different Technologies. , 0, , .		1
29	The Influence of Damaged Tubular Combustion Chamber on Smoke Particle Emissions at the Pellet Burners. , 0, , .		0
30	Photovoltaic Systems in Slovenia and Performance Ratios: A Review. , 0, , .		0
31	Technical and Economical Part of Investments in Solar Power Plants and Small Hydro Power Plants - Comparison Between Technologies. , 0, , .		0
32	The Implementation of Electronic Green Public Procurement Tool in Slovenia. , 0, , .		0
33	Accuracy of Rotational Speed and Torque Sensors for Determining the Mechanical Power of Rotating Electrical Machines. , 0, , .		0
34	Measurement System for Testing of Electric Drives in Electric Vehicles. , 0, , .		0
35	SWOT Analysis of Pedelecs and E-Cars in Selected Countries of the Danube Region. , 0, , .		0
36	Energy Efficiency Indicators of a Single Unit House. , 0, , .		0

#	Article	IF	Citations
37	Estimation of the Solar Irradiance on Tilted Surface for Different Types of Pyranometers. , 0, , .		0