

Alex Stojcevski

List of Publications by Year in descending order

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118
papers

3,695
citations

201385

27
h-index

143772

57
g-index

119
all docs

119
docs citations

119
times ranked

3366
citing authors

#	ARTICLE	IF	CITATIONS
1	Forecasting of photovoltaic power generation and model optimization: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 81, 912-928.	8.2	680
2	State of the art artificial intelligence-based MPPT techniques for mitigating partial shading effects on PV systems – A review. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 64, 435-455.	8.2	267
3	Simulation and Hardware Implementation of New Maximum Power Point Tracking Technique for Partially Shaded PV System Using Hybrid DEPSO Method. <i>IEEE Transactions on Sustainable Energy</i> , 2015, 6, 850-862.	5.9	258
4	Improved Differential Evolution-Based MPPT Algorithm Using SEPIC for PV Systems Under Partial Shading Conditions and Load Variation. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 4322-4333.	7.2	222
5	Short-term PV power forecasting using hybrid GASVM technique. <i>Renewable Energy</i> , 2019, 140, 367-379.	4.3	195
6	Grid-connected isolated PV microinverters: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 67, 1065-1080.	8.2	147
7	Progress on the demand side management in smart grid and optimization approaches. <i>International Journal of Energy Research</i> , 2021, 45, 36-64.	2.2	119
8	Performance Evaluation of Maximum Power Point Tracking Approaches and Photovoltaic Systems. <i>Energies</i> , 2018, 11, 365.	1.6	101
9	Investigating the Role of Virtual Reality in Planning for Sustainable Smart Cities. <i>Sustainability</i> , 2017, 9, 2006.	1.6	90
10	SVR-Based Model to Forecast PV Power Generation under Different Weather Conditions. <i>Energies</i> , 2017, 10, 876.	1.6	87
11	Advancement of lithium-ion battery cells voltage equalization techniques: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 134, 110227.	8.2	86
12	Medium Voltage Large-Scale Grid-Connected Photovoltaic Systems Using Cascaded H-Bridge and Modular Multilevel Converters: A Review. <i>IEEE Access</i> , 2020, 8, 223686-223699.	2.6	76
13	Maximum Power Point Tracking for Photovoltaic Systems under Partial Shading Conditions Using Bat Algorithm. <i>Sustainability</i> , 2018, 10, 1347.	1.6	65
14	Optimal management of home loads with renewable energy integration and demand response strategy. <i>Energy</i> , 2020, 210, 118602.	4.5	60
15	Review on the cooling potential of green roofs in different climates. <i>Science of the Total Environment</i> , 2021, 791, 148407.	3.9	57
16	Intelligent battery energy management and control for vehicle-to-grid via cloud computing network. <i>Applied Energy</i> , 2013, 111, 971-981.	5.1	51
17	A state-of-the-art review of hydropower in Malaysia as renewable energy: Current status and future prospects. <i>Energy Strategy Reviews</i> , 2018, 22, 426-437.	3.3	50
18	Short-Term Forecasting of the Output Power of a Building-Integrated Photovoltaic System Using a Metaheuristic Approach. <i>Energies</i> , 2018, 11, 1260.	1.6	50

#	ARTICLE	IF	CITATIONS
19	Dual input switched-capacitor-based single-phase hybrid boost multilevel inverter topology with reduced number of components. IET Power Electronics, 2020, 13, 881-891.	1.5	48
20	New ARMO-based MPPT Technique to Minimize Tracking Time and Fluctuation at Output of PV Systems under Rapidly Changing Shading Conditions. IEEE Transactions on Industrial Informatics, 2024, , 1-1.	7.2	46
21	Efficient Photovoltaic System Maximum Power Point Tracking Using a New Technique. Energies, 2016, 9, 147.	1.6	45
22	Frequency regulation capabilities in wind power plant. Sustainable Energy Technologies and Assessments, 2018, 26, 47-76.	1.7	45
23	Intelligent control strategy in the islanded network of a solar PV microgrid. Electric Power Systems Research, 2018, 155, 93-103.	2.1	44
24	Analysis of frequency sensitive wind plant penetration effect on load frequency control of hybrid power system. International Journal of Electrical Power and Energy Systems, 2018, 99, 603-617.	3.3	39
25	Application of the hybrid ANFIS models for long term wind power density prediction with extrapolation capability. PLoS ONE, 2018, 13, e0193772.	1.1	38
26	A Review on Primary and Secondary Controls of Inverter-interfaced Microgrid. Journal of Modern Power Systems and Clean Energy, 2021, 9, 969-985.	3.3	33
27	Mitigating Power Fluctuations for Energy Storage in Wind Energy Conversion System Using Supercapacitors. IEEE Access, 2020, 8, 189747-189760.	2.6	31
28	Modelling and power quality analysis of a grid-connected solar PV system. , 2014, , .		29
29	Demand side management in hybrid rooftop photovoltaic integrated smart nano grid. Journal of Cleaner Production, 2020, 258, 120747.	4.6	28
30	Single-Phase Boost Switched-Capacitor-Based Multilevel Inverter Topology With Reduced Switching Devices. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 4336-4346.	3.7	28
31	A relaxed constrained decentralised demand side management system of a community-based residential microgrid with realistic appliance models. Applied Energy, 2020, 277, 115626.	5.1	23
32	PV Based Microgrid with Grid-Support Grid-Forming Inverter Control-(Simulation and Analysis). Smart Grid and Renewable Energy, 2017, 08, 1-30.	0.7	23
33	Solar chimney power plant and its correlation with ambient wind effect. Journal of Thermal Analysis and Calorimetry, 2020, 141, 649-668.	2.0	22
34	Design and Implementation of a Hybrid Single T-Type Double H-Bridge Multilevel Inverter (STDH-MLI) Topology. Energies, 2019, 12, 1810.	1.6	21
35	Adaptive Carrier-Based PDPWM Control for Modular Multilevel Converter With Fault-Tolerant Capability. IEEE Access, 2020, 8, 26739-26748.	2.6	19
36	Null convention logic (NCL) based asynchronous design " fundamentals and recent advances. , 2017, , .		18

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37	Adaptive fuzzy multi-input surface sliding control of multiple-input and multiple-output autonomous flight systems. IET Control Theory and Applications, 2015, 9, 587-597.	1.2	17
38	Urban Design and Walkability: Lessons Learnt from Iranian Traditional Cities. Sustainability, 2021, 13, 5731.	1.6	17
39	A Wearable Wireless Sensor System Using Machine Learning Classification to Detect Arrhythmia. IEEE Sensors Journal, 2021, 21, 11109-11116.	2.4	17
40	Analytical review on common and state-of-the-art FR strategies for VSC-MTDC integrated offshore wind power plants. Renewable and Sustainable Energy Reviews, 2021, 148, 111106.	8.2	16
41	Integration of roof-top solar photovoltaic systems into the low voltage distribution network. Journal of Renewable and Sustainable Energy, 2014, 6, .	0.8	15
42	Optimization of Mono-Crystalline Silicon Solar Cell Devices Using PC1D Simulation. Energies, 2021, 14, 4986.	1.6	15
43	Power Quality Analysis in Microgrid: An Experimental Approach. Journal of Power and Energy Engineering, 2016, 04, 17-34.	0.3	15
44	Accurate Prediction of Hourly Energy Consumption in a Residential Building Based on the Occupancy Rate Using Machine Learning Approaches. Applied Sciences (Switzerland), 2021, 11, 2229.	1.3	14
45	A systematic review of solar driven waste to fuel pyrolysis technology for the Australian state of Victoria. Energy Reports, 2020, 6, 3212-3229.	2.5	14
46	Single phase symmetrical and asymmetrical design of multilevel inverter topology with reduced number of switches. , 2018, , .		13
47	A New Multilevel Inverter Topology with Reduced DC Sources. Energies, 2021, 14, 4709.	1.6	13
48	Influences of Wind Energy Integration into the Distribution Network. Journal of Wind Energy, 2013, 2013, 1-21.	1.0	12
49	An Enhanced Cuckoo Search Algorithm for Solving Optimization Problems. , 2018, , .		12
50	Asymmetrical Multilevel Inverter Topology with Reduced Number of Components. , 2018, , .		10
51	Role of immersive visualization tools in renewable energy system development. Renewable and Sustainable Energy Reviews, 2019, 115, 109363.	8.2	10
52	A feasibility study on microgrid for various Islands in Australia. , 2014, , .		9
53	Solving the Real Power Limitations in the Dynamic Economic Dispatch of Large-Scale Thermal Power Units under the Effects of Valve-Point Loading and Ramp-Rate Limitations. Sustainability, 2021, 13, 1274.	1.6	9
54	Analysis and Design of Series-LC-Switch Capacitor Multistage High Gain DC-DC Boost Converter for Electric Vehicle Applications. Sustainability, 2022, 14, 4495.	1.6	9

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55	Experimental and simulation study of the impact of increased photovoltaic integration with the grid. Journal of Renewable and Sustainable Energy, 2014, 6, .	0.8	8
56	Participation of DFIG based wind energy system in load frequency control of interconnected multigeneration power system. , 2014, , .		8
57	Issues and mitigations of a wind energy penetrated network: Australian network case study. Journal of Modern Power Systems and Clean Energy, 2018, 6, 1141-1157.	3.3	8
58	Transient Faults in Wind Energy Conversion Systems: Analysis, Modelling Methodologies and Remedies. Energies, 2018, 11, 2249.	1.6	8
59	Verification of a bioclimatic modeling system in a growing suburb in Melbourne. Science of the Total Environment, 2019, 689, 883-898.	3.9	8
60	Design and Fabrication of Implants for Mandibular and Craniofacial Defects Using Different Medical-Additive Manufacturing Technologies: A Review. Annals of Biomedical Engineering, 2020, 48, 2285-2300.	1.3	8
61	Numerical simulation of the effect of chimney configuration on the performance of a solar chimney power plant. Journal of Thermal Analysis and Calorimetry, 2022, 147, 2549-2563.	2.0	8
62	Duck curve leveling in renewable energy integrated grids using internet of relays. Journal of Cleaner Production, 2021, 294, 126294.	4.6	8
63	Full converter based wind turbine generator system generic modelling: Variations and applicability. Sustainable Energy Technologies and Assessments, 2016, 14, 46-62.	1.7	7
64	An energy balancing strategy for modular multilevel converter based grid-connected photovoltaic systems. IET Power Electronics, 2021, 14, 2115-2126.	1.5	7
65	Switched-Capacitor Based Seven-Level Triple Voltage Gain Boost Inverter (7L-TVG-BI). , 2020, , .		7
66	A Comparative Study of Staff Perspectives on Design Based Learning in Engineering Education. Journal of Modern Education Review, 2014, 4, 153-168.	0.0	7
67	Optimized Support Vector Regression-Based Model for Solar Power Generation Forecasting on the Basis of Online Weather Reports. IEEE Access, 2022, 10, 15594-15604.	2.6	7
68	Project Based Learning Curriculum in Microelectronics Engineering. , 2008, , .		6
69	Analysis of lightning current characteristics to investigate lightning strike damages to energy pipeline. , 2014, , .		6
70	A smart meeting room scheduling and management system with utilization control and ad-hoc support based on real-time occupancy detection. , 2016, , .		6
71	IoT-Based System Health Management Infrastructure as a Service. , 2018, , .		6
72	Decentralized robust mixed reactive power control of DFIG cluster using SMES. International Journal of Electrical Power and Energy Systems, 2019, 113, 176-187.	3.3	6

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73	Overview and Exploitation of Haptic Tele-Weight Device in Virtual Shopping Stores. Sustainability, 2021, 13, 7253.	1.6	6
74	Measurement of the Volumetric Temperature Distribution in Bulk Liquid Tanks. , 2008, , .		5
75	Cognitive Service Virtualisation: A New Machine Learning-Based Virtualisation to Generate Numeric Values. Sensors, 2020, 20, 5664.	2.1	5
76	A Novel Circuit Configuration for The Integration of Modular Multilevel Converter with Large-Scale Grid-Connected PV Systems. , 2021, , .		5
77	A Comparative Thermal Performance Assessment of Various Solar Collectors for Domestic Water Heating. International Journal of Photoenergy, 2022, 2022, 1-17.	1.4	5
78	Staff and Students Views on Industry-University Collaboration in Engineering. International Journal of Advanced Corporate Learning, 2015, 8, 13.	0.5	4
79	Modelling and analysis of type 4 wind turbine generator system for utilization in frequency regulation studies. , 2015, , .		4
80	Methodology of Intelligent Energy Management System Simulation for Electric Vehicle Applications with Asynchronous Logic Controller. , 2016, , .		4
81	Power Quality Impacts in a Typical Microgrid. , 2015, , .		4
82	A High Speed Analog to Digital Converter for Ultra Wide Band Applications. , 2007, , 169-180.		4
83	Voltage regulation in renewable energy integration into the distribution network. , 2013, , .		3
84	Challenges of electric power management in hybrid and electric vehicles. , 2014, , .		3
85	Modelling and comparison of generic type 4 WTG with EMT type 4 WTG model. , 2015, , .		3
86	The role of the facilitator in a project/design based learning environment. , 2015, , .		3
87	Intelligent frequency regulation in the wind integrated control area. Computers and Electrical Engineering, 2018, 72, 324-347.	3.0	3
88	Distribution transformer load behavior, burden, and characteristics of residential consumers: A case study of Baghdad City. Energy and Buildings, 2020, 210, 109693.	3.1	3
89	Technology Adoption in Engineering Design for Distance Education. International Journal of Quality Assurance in Engineering and Technology Education, 2014, 3, 54-64.	0.1	2
90	Impacts of distributed generators on utility grid — An experimental and simulation analysis. , 2014, , .		2

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91	Blended approach for Peer-to-Peer learning in engineering education. , 2014, , .		2
92	A time series ensemble method to predict wind power. , 2014, , .		2
93	Impact of impurities in 4H, 6H and 3C-SiC substrate on reverse recovery time of p-n junction. , 2017, , .		2
94	Feeling Your Way Around a CAVE-Like Reconfigurable VR System. , 2018, , .		2
95	A Sustainable Distributed Building Integrated Photo-Voltaic System Architecture with a Single Radial Movement Optimization Based MPPT Controller. Sustainability, 2020, 12, 6687.	1.6	2
96	Impacts of Integration of Wind and Solar PV in a Typical Power Network. , 2015, , .		2
97	Submodule fault-tolerant control based adaptive carrier-PDPWM for modular multilevel converters. Energy Reports, 2021, 7, 7288-7296.	2.5	2
98	Implementation of a colorimetric algorithm for portable blood gas analysis. , 2010, , .		1
99	An investigation for improved home energy management. , 2014, , .		1
100	4 Degree-of-Freedom haptic device for surgical simulation. , 2014, , .		1
101	Design and simulation of a novel clockless Fast Fourier Transform (FFT) circuit. , 2017, , .		1
102	New Service Virtualisation Approach to Generate the Categorical Fields in the Service Response. Sensors, 2020, 20, 6776.	2.1	1
103	Design for Manufacture of a Low-Cost Haptic Degree-Of-Freedom. International Journal of Electronics and Electrical Engineering, 2014, , 85-89.	0.2	1
104	Prospect of renewable energy sources and integrating challenges in Victoria, Australia. , 2013, , .		0
105	Aligning Engineering Design Education with Accreditation Requirements. International Journal of Quality Assurance in Engineering and Technology Education, 2014, 3, 110-121.	0.1	0
106	Students and staff perspectives on academic-industry partnerships in engineering. , 2014, , .		0
107	Multi-surface sliding control of MIMO autonomous flight systems. , 2014, , .		0
108	Searching Baxter's URDF robot joint and link tree for active serial chains. , 2015, , .		0

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109	Fuzzy gain scheduled load frequency controller in presence of grid code frequency responsive wind power penetration. , 2016, , .		0
110	Mitigation Measures to Minimize Adverse Impacts of Renewable Energy Integration. , 2016, , 103-123.		0
111	Addendum: Abubakar, U.; Mekhilef, S.; Mokhlis, H.; Seyedmahmoudian, M.; Horan, B.; Stojcevski, A.; Bassi, H.; Rawa, M.J.H. Transient Faults in Wind Energy Conversion Systems: Analysis, Modelling Methodologies and Remedies. Energies 2018, 11, 2249. Energies, 2019, 12, 286.	1.6	0
112	A Novel Approach for Residential Neighborhoodsâ€™ Electricity Demand in Iraq Distribution Power Grids. IEEE Access, 2021, 9, 16508-16521.	2.6	0
113	A Review on the Service Virtualisation and Its Structural Pillars. Applied Sciences (Switzerland), 2021, 11, 2381.	1.3	0
114	Educational Innovation and Change for PBL. , 2012, , 77-88.		0
115	The Future of Engineering Design Education - An Australasian Perspective and Solution. , 2014, , .		0
116	Prospects of Renewable Energy in Semi-Arid Region. Journal of Power and Energy Engineering, 2014, 02, 26-35.	0.3	0
117	Potentialities of Renewable Energy in Victoria, Australia. Journal of Energy and Power Engineering, 2014, 8, .	0.2	0
118	Climate Change, Rising Temperatures. , 2018, , 1-3.		0