# Alex Stojcevski

List of Publications by Year
in descending order

| 118 papers | 3,695 citations | 201575 | | 143943 | |
|---|---|---|---|---|---|
| | | 27 h-index | | 57 g-index | |

| 119 all docs | 119 docs citations | 119 times ranked | 3366 citing authors |
|---|---|---|---|

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | A Comparative Thermal Performance Assessment of Various Solar Collectors for Domestic Water Heating. International Journal of Photoenergy, 2022, 2022, 1-17. | 1.4 | 5 |
| 7 | Progress on the demand side management in smart grid and optimization approaches. International Journal of Energy Research, 2021, 45, 36-64. | 2.2 | 119 |
| 8 | A Novel Approach for Residential Neighborhoods' Electricity Demand in Iraq Distribution Power Grids. IEEE Access, 2021, 9, 16508-16521. | 2.6 | 0 |
| 9 | 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 |
| 10 | A Review on the Service Virtualisation and Its Structural Pillars. Applied Sciences (Switzerland), 2021, 11, 2381. | 1.3 | 0 |
| 11 | 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 |
| 12 | Duck curve leveling in renewable energy integrated grids using internet of relays. Journal of Cleaner Production, 2021, 294, 126294. | 4.6 | 8 |
| 13 | An energy balancing strategy for modular multilevel converter based grid-connected photovoltaic systems. IET Power Electronics, 2021, 14, 2115-2126. | 1.5 | 7 |
| 14 | A Novel Circuit Configuration for The Integration of Modular Multilevel Converter with Large-Scale Grid-Connected PV Systems. , 2021, , . | | 5 |
| 15 | Urban Design and Walkability: Lessons Learnt from Iranian Traditional Cities. Sustainability, 2021, 13, 5731. | 1.6 | 17 |
| 16 | A Wearable Wireless Sensor System Using Machine Learning Classification to Detect Arrhythmia. IEEE Sensors Journal, 2021, 21, 11109-11116. | 2.4 | 17 |
| 17 | Overview and Exploitation of Haptic Tele-Weight Device in Virtual Shopping Stores. Sustainability, 2021, 13, 7253. | 1.6 | 6 |
| 18 | Optimization of Mono-Crystalline Silicon Solar Cell Devices Using PC1D Simulation. Energies, 2021, 14, 4986. | 1.6 | 15 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | A New Multilevel Inverter Topology with Reduced DC Sources. Energies, 2021, 14, 4709. | 1.6 | 13 |
| 20 | 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 |
| 21 | Review on the cooling potential of green roofs in different climates. Science of the Total Environment, 2021, 791, 148407. | 3.9 | 57 |
| 22 | 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 |
| 23 | Submodule fault-tolerant control based adaptive carrier-PDPWM for modular multilevel converters. Energy Reports, 2021, 7, 7288-7296. | 2.5 | 2 |
| 24 | 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 |
| 25 | Solar chimney power plant and its correlation with ambient wind effect. Journal of Thermal Analysis and Calorimetry, 2020, 141, 649-668. | 2.0 | 22 |
| 26 | 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 |
| 27 | Optimal management of home loads with renewable energy integration and demand response strategy. Energy, 2020, 210, 118602. | 4.5 | 60 |
| 28 | Advancement of lithium-ion battery cells voltage equalization techniques: A review. Renewable and Sustainable Energy Reviews, 2020, 134, 110227. | 8.2 | 86 |
| 29 | 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 |
| 30 | Mitigating Power Fluctuations for Energy Storage in Wind Energy Conversion System Using Supercapacitors. IEEE Access, 2020, 8, 189747-189760. | 2.6 | 31 |
| 31 | 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 |
| 32 | New Service Virtualisation Approach to Generate the Categorical Fields in the Service Response. Sensors, 2020, 20, 6776. | 2.1 | 1 |
| 33 | Cognitive Service Virtualisation: A New Machine Learning-Based Virtualisation to Generate Numeric Values. Sensors, 2020, 20, 5664. | 2.1 | 5 |
| 34 | Dual input switchedâ€capacitorâ€based singleâ€phase hybrid boost multilevel inverter topology with reduced number of components. IET Power Electronics, 2020, 13, 881-891. | 1.5 | 48 |
| 35 | Demand side management in hybrid rooftop photovoltaic integrated smart nano grid. Journal of Cleaner Production, 2020, 258, 120747. | 4.6 | 28 |
| 36 | Adaptive Carrier-Based PDPWM Control for Modular Multilevel Converter With Fault-Tolerant Capability. IEEE Access, 2020, 8, 26739-26748. | 2.6 | 19 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 37 | 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 |
| 38 | Medium Voltage Large-Scale Grid-Connected Photovoltaic Systems Using Cascaded H-Bridge and Modular Multilevel Converters: A Review. IEEE Access, 2020, 8, 223686-223699. | 2.6 | 76 |
| 39 | Switched-Capacitor Based Seven-Level Triple Voltage Gain Boost Inverter (7L-TVG-BI). , 2020, , . | | 7 |
| 40 | Verification of a bioclimatic modeling system in a growing suburb in Melbourne. Science of the Total Environment, 2019, 689, 883-898. | 3.9 | 8 |
| 41 | Role of immersive visualization tools in renewable energy system development. Renewable and Sustainable Energy Reviews, 2019, 115, 109363. | 8.2 | 10 |
| 42 | Decentralized robust mixed $H_2$ reactive power control of DFIG cluster using SMES. International Journal of Electrical Power and Energy Systems, 2019, 113, 176-187. | 3.3 | 6 |
| 43 | Design and Implementation of a Hybrid Single T-Type Double H-Bridge Multilevel Inverter (STDH-MLI) Topology. Energies, 2019, 12, 1810. | 1.6 | 21 |
| 44 | 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 |
| 45 | Short-term PV power forecasting using hybrid GASVM technique. Renewable Energy, 2019, 140, 367-379. | 4.3 | 195 |
| 46 | 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 |
| 47 | Improved Differential Evolution-Based MPPT Algorithm Using SEPIC for PV Systems Under Partial Shading Conditions and Load Variation. IEEE Transactions on Industrial Informatics, 2018, 14, 4322-4333. | 7.2 | 222 |
| 48 | Intelligent control strategy in the islanded network of a solar PV microgrid. Electric Power Systems Research, 2018, 155, 93-103. | 2.1 | 44 |
| 49 | Frequency regulation capabilities in wind power plant. Sustainable Energy Technologies and Assessments, 2018, 26, 47-76. | 1.7 | 45 |
| 50 | Forecasting of photovoltaic power generation and model optimization: A review. Renewable and Sustainable Energy Reviews, 2018, 81, 912-928. | 8.2 | 680 |
| 51 | Issues and mitigations ofÂwind energy penetrated network: Australian network case study. Journal of Modern Power Systems and Clean Energy, 2018, 6, 1141-1157. | 3.3 | 8 |
| 52 | Asymmetrical Multilevel Inverter Topology with Reduced Number of Components. , 2018, , . | | 10 |
| 53 | A state-of-the-art review of hydropower in Malaysia as renewable energy: Current status and future prospects. Energy Strategy Reviews, 2018, 22, 426-437. | 3.3 | 50 |
| 54 | IoT-Based System Health Management Infrastructure as a Service. , 2018, , . | | 6 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 55 | An Enhanced Cuckoo Search Algorithm for Solving Optimization Problems. , 2018, , . | | 12 |
| 56 | Intelligent frequency regulation in the wind integrated control area. Computers and Electrical Engineering, 2018, 72, 324-347. | 3.0 | 3 |
| 57 | Transient Faults in Wind Energy Conversion Systems: Analysis, Modelling Methodologies and Remedies. Energies, 2018, 11, 2249. | 1.6 | 8 |
| 58 | Short-Term Forecasting of the Output Power of a Building-Integrated Photovoltaic System Using a Metaheuristic Approach. Energies, 2018, 11, 1260. | 1.6 | 50 |
| 59 | Maximum Power Point Tracking for Photovoltaic Systems under Partial Shading Conditions Using Bat Algorithm. Sustainability, 2018, 10, 1347. | 1.6 | 65 |
| 60 | Performance Evaluation of Maximum Power Point Tracking Approaches and Photovoltaic Systems. Energies, 2018, 11, 365. | 1.6 | 101 |
| 61 | Feeling Your Way Around a CAVE-Like Reconfigurable VR System. , 2018, , . | | 2 |
| 62 | Application of the hybrid ANFIS models for long term wind power density prediction with extrapolation capability. PLoS ONE, 2018, 13, e0193772. | 1.1 | 38 |
| 63 | Single phase symmetrical and asymmetrical design of multilevel inverter topology with reduced number of switches. , 2018, , . | | 13 |
| 64 | Climate Change, Rising Temperatures. , 2018, , 1-3. | | 0 |
| 65 | Null convention logic (NCL) based asynchronous design â€" fundamentals and recent advances. , 2017, , . | | 18 |
| 66 | Design and simulation of a novel clockless Fast Fourier Transform (FFT) circuit. , 2017, , . | | 1 |
| 67 | Impact of impurities in 4H, 6H and 3C-SiC substrate on reverse recovery time of p-n junction. , 2017, , . | | 2 |
| 68 | Grid-connected isolated PV microinverters: A review. Renewable and Sustainable Energy Reviews, 2017, 67, 1065-1080. | 8.2 | 147 |
| 69 | Investigating the Role of Virtual Reality in Planning for Sustainable Smart Cities. Sustainability, 2017, 9, 2006. | 1.6 | 90 |
| 70 | SVR-Based Model to Forecast PV Power Generation under Different Weather Conditions. Energies, 2017, 10, 876. | 1.6 | 87 |
| 71 | 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 |
| 72 | Efficient Photovoltaic System Maximum Power Point Tracking Using a New Technique. Energies, 2016, 9, 147. | 1.6 | 45 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 73 | State of the art artificial intelligence-based MPPT techniques for mitigating partial shading effects on PV systems â€" A review. Renewable and Sustainable Energy Reviews, 2016, 64, 435-455. | 8.2 | 267 |
| 74 | Fuzzy gain scheduled load frequency controller in presence of grid code frequency responsive wind power penetration. , 2016, , . | | 0 |
| 75 | Methodology of Intelligent Energy Management System Simulation for Electric Vehicle Applications with Asynchronous Logic Controller. , 2016, , . | | 4 |
| 76 | A smart meeting room scheduling and management system with utilization control and ad-hoc support based on real-time occupancy detection. , 2016, , . | | 6 |
| 77 | Mitigation Measures to Minimize Adverse Impacts of Renewable Energy Integration. , 2016, , 103-123. | | 0 |
| 78 | Full converter based wind turbine generator system generic modelling: Variations and applicability. Sustainable Energy Technologies and Assessments, 2016, 14, 46-62. | 1.7 | 7 |
| 79 | Power Quality Analysis in Microgrid: An Experimental Approach. Journal of Power and Energy Engineering, 2016, 04, 17-34. | 0.3 | 15 |
| 80 | Modelling and comparison of generic type 4 WTG with EMT type 4 WTG model. , 2015, , . | | 3 |
| 81 | Staff and Students Views on Industry-University Collaboration in Engineering. International Journal of Advanced Corporate Learning, 2015, 8, 13. | 0.5 | 4 |
| 82 | The role of the facilitator in a project/design based learning environment. , 2015, , . | | 3 |
| 83 | Adaptive fuzzy multiâ€surface sliding control of multipleâ€input and multipleâ€output autonomous flight systems. IET Control Theory and Applications, 2015, 9, 587-597. | 1.2 | 17 |
| 84 | Simulation and Hardware Implementation of New Maximum Power Point Tracking Technique for Partially Shaded PV System Using Hybrid DEPSO Method. IEEE Transactions on Sustainable Energy, 2015, 6, 850-862. | 5.9 | 258 |
| 85 | Searching Baxter's URDF robot joint and link tree for active serial chains. , 2015, , . | | 0 |
| 86 | Modelling and analysis of type 4 wind turbine generator system for utilization in frequency regulation studies. , 2015, , . | | 4 |
| 87 | Impacts of Integration of Wind and Solar PV in a Typical Power Network. , 2015, , . | | 2 |
| 88 | Power Quality Impacts in a Typical Microgrid. , 2015, , . | | 4 |
| 89 | Aligning Engineering Design Education with Accreditation Requirements. International Journal of Quality Assurance in Engineering and Technology Education, 2014, 3, 110-121. | 0.1 | 0 |
| 90 | 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 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 91 | Analysis of lightning current characteristics to investigate lightning strike damages to energy pipeline. , 2014, , . | | 6 |
| 92 | 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 |
| 93 | An investigation for improved home energy management. , 2014, , . | | 1 |
| 94 | Challenges of electric power management in hybrid and electric vehicles. , 2014, , . | | 3 |
| 95 | Impacts of distributed generators on utility grid &amp;#x2014; An experimental and simulation analysis. , 2014, , . | | 2 |
| 96 | Participation of DFIG based wind energy system in load frequency control of interconnected multigeneration power system. , 2014, , . | | 8 |
| 97 | Blended approach for Peer-to-Peer learning in engineering education. , 2014, , . | | 2 |
| 98 | 4 Degree-of-Freedom haptic device for surgical simulation. , 2014, , . | | 1 |
| 99 | Students and staff perspectives on academic-industry partnerships in engineering. , 2014, , . | | 0 |
| 100 | A time series ensemble method to predict wind power. , 2014, , . | | 2 |
| 101 | Modelling and power quality analysis of a grid-connected solar PV system. , 2014, , . | | 29 |
| 102 | A feasibility study on microgrid for various Islands in Australia. , 2014, , . | | 9 |
| 103 | Multi-surface sliding control of MIMO autonomous flight systems. , 2014, , . | | 0 |
| 104 | Integration of roof-top solar photovoltaic systems into the low voltage distribution network. Journal of Renewable and Sustainable Energy, 2014, 6, . | 0.8 | 15 |
| 105 | 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 |
| 106 | The Future of Engineering Design Education - An Australasian Perspective and Solution. , 2014, , . | | 0 |
| 107 | Prospects of Renewable Energy in Semi-Arid Region. Journal of Power and Energy Engineering, 2014, 02, 26-35. | 0.3 | 0 |
| 108 | Design for Manufacture of a Low-Cost Haptic Degree-Of-Freedom. International Journal of Electronics and Electrical Engineering, 2014, , 85-89. | 0.2 | 1 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 109 | Potentialities of Renewable Energy in Victoria, Australia. Journal of Energy and Power Engineering, 2014, 8, . | 0.2 | 0 |
| 110 | Intelligent battery energy management and control for vehicle-to-grid via cloud computing network. Applied Energy, 2013, 111, 971-981. | 5.1 | 51 |
| 111 | Voltage regulation in renewable energy integration into the distribution network. , 2013, , . | | 3 |
| 112 | Prospect of renewable energy sources and integrating challenges in Victoria, Australia. , 2013, , . | | 0 |
| 113 | Influences of Wind Energy Integration into the Distribution Network. Journal of Wind Energy, 2013, 2013, 1-21. | 1.0 | 12 |
| 114 | Educational Innovation and Change for PBL. , 2012, , 77-88. | | 0 |
| 115 | Implementation of a colorimetric algorithm for portable blood gas analysis. , 2010, , . | | 1 |
| 116 | Project Based Learning Curriculum in Microelectronics Engineering. , 2008, , . | | 6 |
| 117 | Measurement of the Volumetric Temperature Distribution in Bulk Liquid Tanks. , 2008, , . | | 5 |
| 118 | A High Speed Analog to Digital Converter for Ultra Wide Band Applications. , 2007, , 169-180. | | 4 |