

## **Publications List of Dr. D. Prince Winston**

### **International Publication:**

1. Balachandran, Gurukarthik Babu, **Prince Winston David**, Aravind Bhaskar Panayilvedu Vijayakumar, Muthu Manokar Athikesavan, and Ravishankar Sathyamurthy. "Enhancement of PV/T-integrated single slope solar desalination still productivity using water film cooling and hybrid composite insulation." *Environmental Science and Pollution Research* 27, no. 26 (2020): 32179-32190.
2. Muthu Manokar, A., M. Vimala, **D. Prince Winston**, D. R. Rajendran, Ravishankar Sathyamurthy, and A. E. Kabeel. "Year around distilled water production, energy, and economic analysis of solar stills—A comparative study." *Heat Transfer* 49, no. 6 (2020): 3651-3662.
3. Karthikeyan, Ganesan, **David Prince Winston**, Ananthan Bhuvanesh, and Kannan Gangatharan. "Evaluation of Faults in a DC Grid-Connected Solar Systems of Ships." *Marine Technology Society Journal* 54, no. 4 (2020): 93-99.
4. Balachandran, Gurukarthik Babu, **Prince Winston David**, Padmanaban Velayudhaperumal Chellam, Mohamed Nasrulla Akbar Ali, Vignesh Radhakrishnan, Ramkumar Balamurugan, and A. Muthu Manokar. "Rehash of cooked oil for the palatable water production using single slope solar still." *Fuel* 271 (2020): 117613.
5. **Prince Winston, David**, Karthikeyan Ganesan, Devakirubakaran Samithas, and Chitti Babu Baladhanautham. "Experimental investigation on output power enhancement of partial shaded solar photovoltaic system." *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects* (2020): 1-17.
6. Manokar, A. Muthu, M. Vimala, Ravishankar Sathyamurthy, A. E. Kabeel, **D. Prince Winston**, and Ali J. Chamkha. "Enhancement of potable water production from an inclined photovoltaic panel absorber solar still by integrating with flat-plate collector." *Environment, Development and Sustainability* 22, no. 5 (2020): 4145-4167.
7. Manokar, A. Muthu, Yazan Taamneh, **D. Prince Winston**, P. Vijayabalan, D. Balaji, Ravishankar Sathyamurthy, S. Padmanaba Sundar, and D. Mageshbabu. "Effect of water depth and insulation on the productivity of an acrylic pyramid solar still—an experimental study." *Groundwater for Sustainable Development* 10 (2020): 100319.
8. Sasikumar, C., A. Muthu Manokar, M. Vimala, **D. Prince Winston**, A. E. Kabeel, Ravishankar Sathyamurthy, and Ali J. Chamkha. "Experimental studies on passive inclined

solar panel absorber solar still." *Journal of Thermal Analysis and Calorimetry* 139, no. 6 (2020): 3649-3660.

9. Abraham, J. Dani, R. M. Sasiraja, and **D. Prince Winston**. "Voltage Mismatch Fault Analysis in Solar Photo Voltaic Systems." *Solid State Technology* (2020): 2206-2224.
10. Mariappan, D., S. Kalyani, **D. Prince Winston**, and P. M. Devie. "Quantum Angle Variant Optimization (QAVO) Controller based Grid Connected Converter in Microgrid System." *Solid State Technology* (2020): 738-754.
11. **Winston, D. Prince**. "Design of Sustainable PV Module for Efficient Power Generation During Faults." *IEEE Transactions on Components, Packaging and Manufacturing Technology* 10, no. 3 (2020): 389-392.
12. Gurukarthik Babu, B., **D. Prince Winston**, P. V. Aravind Bhaskar, R. Baskaran, and P. Narayanasamy. "Exploration of Electrical, Thermal, and Mechanical Properties of Phaseolus vulgaris Fiber/Unsaturated Polyester Resin Composite Filled with Nano-SiO<sub>2</sub>." *Journal of Natural Fibers* (2020): 1-17.
13. **Winston, D. Prince**, S. Kumaravel, B. Praveen Kumar, and S. Devakirubakaran. "Performance improvement of solar PV array topologies during various partial shading conditions." *Solar Energy* 196 (2020): 228-242.
14. Balachandran, Gurukarthik Babu, **Prince Winston David**, Rajesh Kannan Mariappan, Muthu Manokar Athikesavan, and Ravishankar Sathyamurthy. "Improvising the efficiency of single-sloped solar still using thermally conductive nano-ferric oxide." *Environmental Science and Pollution Research* (2019): 1-14.
15. Gurukarthik Babu, B., **D. Prince Winston**, P. SenthamaraiKannan, S. S. Saravanakumar, and M. R. Sanjay. "Study on characterization and physicochemical properties of new natural fiber from Phaseolus vulgaris." *Journal of Natural Fibers* 16, no. 7 (2019): 1035-1042.
16. Kabeel, A. E., A. Muthu Manokar, Ravishankar Sathyamurthy, **D. Prince Winston**, S. A. El-Agouz, and Ali J. Chamkha. "A review on different design modifications employed in inclined solar still for enhancing the productivity." *Journal of Solar Energy Engineering* 141, no. 3 (2019).
17. Manokar, A. Muthu, **D. Prince Winston**, Ravishankar Sathyamurthy, A. E. Kabeel, and A. Rama Prasath. "Experimental investigation on pyramid solar still in passive and active mode." *Heat and Mass Transfer* 55, no. 4 (2019): 1045-1058.

18. Sundaram, B. Meenakshi, B. V. Manikandan, B. Praveen Kumar, and **D. Prince Winston**. "Combination of novel converter topology and improved MPPT algorithm for harnessing maximum power from grid connected solar PV systems." *Journal of Electrical Engineering & Technology* 14, no. 2 (2019): 733-746.
19. Jeba Singh, O., **D. Prince Winston**, B. Chitti Babu, S. Kalyani, B. Praveen Kumar, M. Saravanan, and S. Cynthia Christabel. "Robust detection of real-time power quality disturbances under noisy condition using FTDD features." *Automatika* 60, no. 1 (2019): 11-18.
20. Balachandran, G., **Prince Winston David**, and Mohamed Nasrulla Akbar. "Modeling of "V" type slope solar still using ANSYS-CFD simulation." In *22nd International Water Technology Conference*, pp. 286-297. 2019.
21. Singh, O. Jeba, **D. Prince Winston**, B. Chitti Babu, S. Kalyani, B. Praveen, M. Saravanan Kumar, and S. Cynthia Christabel. "Robust detection of real-time power quality disturbances under noisy condition using FTDD." *Automatika* 60, no. 1 (2019): 11-18.
22. Malathi, C., U. Nithya, S. Suganya, and **D. Prince Winston**. "DEVELOPMENT OF MULTITEST SYSTEM FOR SOLAR PV." *Power* 10, no. 9.34 (2019): 5-55.
23. Manokar, A. Muthu, M. Vimala, **D. Prince Winston**, Ravishankar Sathyamurthy, and A. E. Kabeel. "Effect of insulation on energy and exergy effectiveness of a solar photovoltaic panel incorporated inclined solar still—an experimental investigation." In *Solar desalination technology*, pp. 275-292. Springer, Singapore, 2019.
24. Manokar, A. Muthu, M. Vimala, **D. Prince Winston**, R. Ramesh, Ravishankar Sathyamurthy, P. K. Nagarajan, and R. Bharathwaaj. "Different parameters affecting the condensation rate on an active solar still—A review." *Environmental Progress & Sustainable Energy* 38, no. 1 (2019): 286-296.
25. Manokar, A. Muthu, Yazan Taamneh, A. E. Kabeel, Ravishankar Sathyamurthy, **D. Prince Winston**, and Ali J. Chamkha. "Review of different methods employed in pyramidal solar still desalination to augment the yield of freshwater." *Desalin Water Treat* 136 (2018): 20-30.
26. **Winston, D. Prince**, B. Praveen Kumar, S. Cynthia Christabel, Ali J. Chamkha, and Ravishankar Sathyamurthy. "Maximum power extraction in solar renewable power system-

a bypass diode scanning approach." *Computers & Electrical Engineering* 70 (2018): 122-136.

27. Pounraj, P., **D. Prince Winston**, A. E. Kabeel, B. Praveen Kumar, A. Muthu Manokar, Ravishankar Sathyamurthy, and S. Cynthia Christabel. "Experimental investigation on Peltier based hybrid PV/T active solar still for enhancing the overall performance." *Energy conversion and management* 168 (2018): 371-381.
28. Manokar, A. Muthu, **D. Prince Winston**, Jayanta Deb Mondol, Ravishankar Sathyamurthy, A. E. Kabeel, and Hitesh Panchal. "Comparative study of an inclined solar panel basin solar still in passive and active mode." *Solar Energy* 169 (2018): 206-216.
29. **Winston, D. Prince**, P. Pounraj, A. Muthu Manokar, Ravishankar Sathyamurthy, and A. E. Kabeel. "Experimental investigation on hybrid PV/T active solar still with effective heating and cover cooling method." *Desalination* 435 (2018): 140-151.
30. Manokar, A. Muthu, **D. Prince Winston**, A. E. Kabeel, S. A. El-Agouz, Ravishankar Sathyamurthy, T. Arunkumar, B. Madhu, and Amimul Ahsan. "Integrated PV/T solar still- A mini-review." *Desalination* 435 (2018): 259-267.
31. Manokar, A. Muthu, **D. Prince Winston**, A. E. Kabeel, and Ravishankar Sathyamurthy. "Sustainable fresh water and power production by integrating PV panel in inclined solar still." *Journal of cleaner production* 172 (2018): 2711-2719.
32. Kumar, B. Praveen, **D. Prince Winston**, S. Cynthia Christabel, and S. Venkatanarayanan. "Implementation of a switched PV technique for rooftop 2 kW solar PV to enhance power during unavoidable partial shading conditions." *Journal of Power Electronics* 17, no. 6 (2017): 1600-1610.
33. Shitharth, S., and **D. Prince Winston**. "Comparison of PRC based RVM classification versus SVM classification in SCADA network." *J. Electr. Eng* 17, no. 1 (2017): 318-331.
34. Manokar, A. Muthu, and **D. Prince Winston**. "Comparative study of finned acrylic solar still and galvanised iron solar still." *Materials Today: Proceedings* 4, no. 8 (2017): 8323-8327.
35. Priyanka, V., C. Rajeswari, C. Shanmugapandeeshwari, **D. Prince, Winston**, and P. Kumar. "Design of solar PV panel cooling system with data logger." *International Journal of Research in Management, Architecture, Technology and Engineering* 3 (2017): 192-98.
36. Manokar, A. Muthu, and **D. Prince Winston**. "Experimental analysis of single basin single slope finned acrylic solar still." *Materials Today: Proceedings* 4, no. 8 (2017): 7234-7239.

37. Pounraj, P., **D. Prince Winston**, S. Cynthia Christabel, and R. Ramaraj. "A continuous health monitoring system for photovoltaic array using arduino microcontroller." *Circuits and Systems* 7, no. 11 (2016): 3494-3503.
38. Shitharth, S., and **D. Prince Winston**. "A New Probablistic Relevancy Classification (PRC) based Intrusion Detection System (IDS) for SCADA network." *Journal of Electrical Engineering* 16, no. 3 (2016): 278-288.
39. Christabel, S. Cynthia, A. Srinivasan, **D. Prince Winston**, and B. Praveen Kumar. "Reconfiguration solution for extracting maximum power in the aged solar PV systems." *Journal of Electrical Engineering* 16, no. 3 (2016): 440-446.
40. Christabel, S. Cynthia, A. Srinivasan, and **D. Prince Winston**. "Couple matching best generation algorithm for partially shaded photovoltaic systems." *Journal of Electrical Engineering* 16, no. 3 (2016): 382-391.
41. Manokar, A. Muthu, **D. Prince Winston**, and M. Vimala. "Performance analysis of parabolic trough concentrating photovoltaic thermal system." *Procedia Technology* 24 (2016): 485-491.

#### **International Conference:**

42. **Winston, D. Prince**. "Efficient Output Power Enhancement and Protection Technique for Hot Spotted Solar Photovoltaic Modules." *IEEE Transactions on Device and Materials Reliability* 19, no. 4 (2019): 664-670.
43. BAKYA, M. AMMU, S. PREETHI, P. SUGANYA DEVI, S. VIMALA DEVI, and **D. PRINCE WINSTON**. "ARTIFICIAL INTELLIGENCE FOR UNEARTHING YARN BREAKAGE." (2019).
44. Shitharth, S., and **D. Prince Winston**. "A novel IDS technique to detect DDoS and sniffers in smart grid." In *2016 World Conference on Futuristic Trends in Research and Innovation for Social Welfare (Startup Conclave)*, pp. 1-6. IEEE, 2016.