Dr. S. Manikandan
Research Assistant Professor
Department of Mechanical Engineering
SRM Institute of Science and Technology
Chennai-603203
Tamil Nadu, India.

Contact no.: 9015532238
Email: manikans@srmist.edu.in

Publications:

1. Singh SK, Reddy DS, Mukherjee M, Manikandan S, Kumar P. Enhanced thermal performance of a thermoelectric generator with phase change materials.(2020).
2. M Sivashankar, C Selvam, S Manikandan, Sivasankaran Harish. Performance improvement in concentrated photovoltaics using nano-enhanced phase change material with graphene nanoplatelets(2020).
3. M Varun, S Manikandan. Performance Evaluation of Bifacial and Monofacial modules in vertical and latitude mounting at South India using PVsyst(2020)
4. Sakthivadivel Duraisamy, Manikandan Sundararaj, Kumaraselvan Raja, Ganesh Kumar Poongavanam, Iniyan Selvarasan. Energy and Exergy Analysis of an Advanced Cookstove-Based Annular Thermoelectric Cogeneration System(2019)
5. Singh SK, Reddy DS, Mukherjee M, Manikandan S, Kumar P. Discussion of "Wave-current generated turbulence over hemisphere bottom roughness by Barman et al.(2018). Estuarine, Coastal and Shelf Science. 2018 Aug 31;208:49-51. (Impact Factor: 2.3, SCI)
6. Lamba R, Manikandan S, Kaushik SC, Tyagi SK. Thermodynamic modeling and performance optimization of trapezoidal thermoelectric cooler using a genetic algorithm. Thermal Science and Engineering Progress. 2018 Jun 1;6:236-50. (Impact Factor: 1.93, SCOPUS)
7. Lamba R, Manikandan S, Kaushik SC. Performance Analysis and Optimization of Concentrating Solar Thermoelectric Generator. Journal of Electronic Materials.:1-1. (Impact Factor: 1.579, SCI)
8. Rawat R, Kaushik SC, Manikandan S. "An innovative thermodynamic model for performance evaluation of photovoltaic systems: Effect of wind speed and cell temperature". Energy Conversion and Management. 136 (2017): 152-60. (Impact Factor: 5.589, SCI)
9. Manikandan S, Kaushik SC, Ronggui Yang. "Modified pulse operation of thermoelectric coolers for building cooling applications". Energy Conversion and Management. 2017;140:145-56. (Impact Factor: 5.472, SCI)
10. Rawat R, Kaushik SC, Manikandan S. "An innovative thermodynamic model for performance evaluation of photovoltaic systems: Effect of wind speed and cell temperature". Energy Conversion and Management. 136 (2017): 152-60. (Impact Factor: 5.472, SCI)
11. Hans R, Kaushik SC, Manikandan S. "Experimental study and analysis on novel thermo-electric cooler driven by a solar photovoltaic system". Applied Solar Energy. 2016 Jul 1;52(3):205-10.

12. Manikandan S, Kaushik SC. “Transient Thermal Behavior of Annular Thermoelectric Cooling System”. Journal of Electronic Materials. 2016 Oct:1-0. (Impact Factor: 1.579, SCI)
13. Hans R, Kaushik S, Manikandan S. “Performance optimization of a two-stage exo reversible thermoelectric heat pump in electrically series, parallel and isolated configurations”. International Journal of Energy Technology and Policy. 2016;12(4):313-32. (Impact Factor: 0.147, SCOPUS)
14. Manikandan S, Kaushik S. “The Influence of Thomson Effect in the Performance Optimization of a Two-Stage Thermoelectric Generator”. Energy. 100 (2016): 227-237. (Impact Factor: 5.182, SCI)
15. Kaushik, SC, Ranjana Hans, and S Manikandan. "Theoretical and Experimental Investigations on Solar Photovoltaic Driven Thermoelectric Cooler System for Cold Storage Application." International Journal of Environmental Science and Development 7, no. 8 (2016): 615-620.
16. Manikandan S, Kaushik S. “Energy and exergy analysis of an annular thermoelectric heat pump”. Journal of Electronic Materials. 2016;4:1-10. (Impact Factor: 1.579, SCI)
17. Manikandan S, Kaushik S. “Energy and exergy analysis of solar heat pipe based annular thermoelectric generator system”. Solar Energy. 2016;135:569-77. (Impact Factor: 4.739, SCI)
18. 10. Kaushik, S. C., S. Manikandan, and Ranjana Hans. "Energy and exergy analysis of thermoelectric heat pump system." International Journal of Heat and Mass Transfer 86 (2015): 843-852. (Impact Factor: 3.552, SCI)
19. Manikandan, S., and S. C. Kaushik. "Thermodynamic studies and maximum power point tracking in thermoelectric generator–thermoelectric cooler combined system." Cryogenics 67 (2015): 52-62. (Impact Factor: 1.316, SCI)
20. Kaushik, S. C., and S. Manikandan. "The influence of Thomson effect in the energy and exergy efficiency of an annular thermoelectric generator." Energy Conversion and Management 103 (2015): 200-207. (Impact Factor: 5.472, SCI)
21. Ranjana Hans, Kaushik, S. C., and S. Manikandan. "Performance optimization of a two-stage thermoelectric generator." International Journal of Electronic Materials (2015): 1-10. (Impact Factor: 1.579, SCI)
22. Manikandan S, and SC Kaushik. "Energy and Exergy Analysis of an Annular Thermoelectric Cooler." Energy Conversion and Management 106 (2015): 804-14. (Impact Factor: 5.472, SCI)
23. Kaushik, SC, and S Manikandan. "The Influence of Thomson Effect in the Performance Optimization of a Two-Stage Thermoelectric Cooler." Cryogenics 72 (2015): 57-64. (Impact Factor: 1.316, SCI)
24. Kaushik SC, Manikandan S, Hans R. Thermodynamic Modeling Of Thermoelectric Generator Systems. Heat Pipe Science and Technology. 2015;6(3-4).