

Individual Biodata



Name : Dr. M. Sivakumar
 Designation : Assistant Professor and Head
 Address : Department of Basic Engineering
 College of Fisheries Engineering
 Tamil Nadu Fisheries University
 Muttam Village
 Contact
 Telephone (O) : 04365 240442
 Telephone (R) :
 Mobile : +91- 9865843427
 Email : sivakumar@tnfu.ac.in
 Qualification : B.E Mechanical Engineering
 M.E Production Engineering
 Ph.D Cryogenics/HVAC
 Field of Specialization :
 Major : Mechanical Engineering
 Specializing field : Heating Ventilating and Air Conditioning
 [HVAC],Cryogeniscs
 Experience (in years) : 17

Current projects :

S p.	Title of the Project	Year	PI & Co- PI of the Project	Funds (in Rs)	Funding Agency
1	Development and demonstration of innovative fisheries engineering interventions for the production maximization in fisheries industries in Tamil Nadu Sub projects ✓ Development of small scale automatic integrated powder making unit using fish/food waste ✓ Demand based solar powered auto feeder for hatcheries	2017 - 2020	Dr. S. Balasubramanian Dr. N. Manimehalai Dr. M. Sivakumar Dr. P. Karthickumar Dr. D. Kesavan Dr. M. Sivakumar Dr.Mohammad Tanveer Er. S. Monikandon	30,60,000/- 21,00,000/ -	Tamil Nadu Innovation Initiative

Completed projects :

Sl.No.	Title of the Project	Year	PI & Co- PI of the Project	Funds (in Rs)	Funding Agency
1	Design and Development of Nano particle Eco friendly chilling plant for fish processing	2016- 17	Dr. M. Sivakumar	1,00,000	TNJFU

Research publications :

1. M. Sivakumar*, P. Somasundaram (2014). Exergy and Energy analysis of Three Stage Auto Refrigerating Cascade System using Zeotropic Mixture for Sustainable Development. *Energy conservation and Management*, 84 (C): 859-596.
2. M. Sivakumar*, P. Somasundaram (2014). Thermodynamic Investigations of Zeotropic mixture of R290,R23 & R14 on Three Stage Auto Refrigerating Cascade System. *Thermal Science*, DOI: 10.2298/TSCI1401030915.
3. M. Sivakumar*, P. Somasundaram (2013). Exergy and Performance analysis of Three Stage Auto Refrigerating Cascade (3 stage ARC) System using Environment Friendly Zeotropic Mixture of R290,R170 & R14. *Pollution Research*, 32 (4): 943-952.
4. M. Sivakumar*, P. Somasundaram, P.Thangavel (2013). Exergy and Performance analysis of Three Stage Auto Refrigerating Cascade (3 stage ARC) System using Zeotropic Mixture of Eco-Friendly Refrigerants. *International Review of Mechanical Engineers*, 8 (1): 124-134.
5. K. Karthikeyan*, P. Somasundaram, M. Sivakumar*, C.J. Thomas Renald and 5G. Jayabalaji (2017). Certain Studies On Ecofriendly Refrigerants Used In Vapour Compression Refrigeration System Of Automobile Air-Conditioner. *Advances in Natural and Applied Sciences*, 11 (2): 77-84.
6. M. Sivakumar*, Mohammad Tanveer (2016). A Conceptual Approach For Design And Development Of Bio-Inspired Rudder For Fishing Vessel. *International Journal of Science, Environment.and Technology*, 5 (6): 4602 - 4606.
7. M. Sivakumar, Mohammad Tanveer* (2016). A conceptual approach for development of solar Powered aeration system in aquaculture farmsA Conceptual Approach For Design And Development Of Bio-Inspired Rudder For Fishing Vessel. *International Journal of Science, Environment.and Technology*, 5 (5): 2921 - 2925.
8. Karthikeyan. K, Somasundaram.p, Sivakumar.M , Thangavel. S (2017). Experimental Investigations on Automobile Air Conditioners working with R134a and R290/R600a as an alternative. *Thermal Science* 21(2), 2017, 515-522.
9. Mohammad Tanveer, M. Sivakumar (2017). Performance evaluation of Foxtail Amaranth (*Amaranthus gangeticus*) and GIFT tilapia grown in a recirculating aquaponics system, *International Journal of Agricultural Engineering*, 10 (2), October 2017
10. M. Sivakumar, Mohammad Tanveer (2017). Performance analysis of Nano Particle Eco Friendly chilling plant for fish Processing, *International Journal of Agricultural Engineering*, 10 (2), October 2017
11. M. Sivakumar, Mohammad Tanveer & S. Balasubramanian (2017). Nano Particle a Reliable source For Energy Efficient Eco Friendly Chilling For Fish Processing, *Rashtriya Krishi*, 12 (2), December 2017, 159
12. Mohammad Tanveer, M. Sivakumar & S. Balasubramanian (2017). Aquaponics A boon for food security, *Rashtriya Krishi*, 12 (2), December 2017

Honours and Awards

- a. **Best Teaching Staff Award** 2017 from TNJFU
- b. **Guiding 11 Ph.D scholars from Anna University**
- c. Awarded as **Outstanding Reviewer by Elsevier Journal** "*Applied Thermal Engineering*"
- d. Awarded as **Best Reviewer by Elsevier Journal** "*International Journal of Heat And Mass Transfer*"
- e. "**A simple approach to CNC Programming**" got the *Copy Rights from Indian Government - (L-48414/2013)*
- f. Bureau of Energy Efficiency – **Indian Government Accredited Energy Manager**
- g. Tamil Nadu Electricity Board (**TNEB**) **Accredited Energy Auditor**