

## Dr. M.Arulprakasajothi

journals		conference		Books published	Popular article
National	International	National	International	-	-
-	17	4	10		

### LIST OF PUBLICATIONS

#### International Journals

1. Nagappan Beemkumar, Devarajan Yuvarajan, **Mahalingam Arulprakasajothi**, Kariappan Elangovan, Thirugnanasambandam Arunkumar, (2020) Control of room temperature fluctuations

in the building by incorporating PCM in the roof, Journal of Thermal Analysis and Calorimetry, doi: 10.1007/s10973-019-09226-0 **Impact Factor: 2.471**

2. Beemkumar, N., Yuvarajan, D., **Arulprakasajothi, M.**, Ganesan, S., Elangovan, K., & Senthilkumar, G. (2019). Experimental investigation and numerical modeling of room temperature

control in buildings by the implementation of PCM in the roof. Journal of Solar Energy Engineering, 1–29. doi:10.1115/1.4044564. **Impact Factor: 1.367**

3. **Arulprakasajothi, M.**, Beemkumar, N., Parthipan, J., & Battu, N. raju. (2019). Investigating the

Physio-chemical Properties of Densified Biomass Pellet Fuels from Fruit and Vegetable Market Waste. Arabian Journal for Science and Engineering. doi:10.1007/s13369-019-04294-8

**Impact Factor: 1.518**

4. **Arulprakasajothi, M.**, Dilip Raja, N., Beemkumar, N., & Elangovan, K. (2019). Experimental

study on Al<sub>2</sub>O<sub>3</sub> /H<sub>2</sub>O nanofluid with conical sectional insert in concentric tube heat exchanger. Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 1–13.

doi:10.1080/15567036.2019.1649753. **Impact Factor: 1.184**

5. Jafar, K. S., **Arulprakasajothi, M.**, Beemkumar, N., & Elangovan, K. (2019). Effect of conical

strip inserts in a parabolic trough solar collector under turbulent flow. Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 1–13. doi:10.1080/15567036.2019.1650850

**Impact Factor: 1.184**

6. Srinivasan, K. V., Manimaran, A., **Arulprakasajothi, M.**, Pokale, R. D., & Arolkar, V. A. (2019).

Theoretical analysis on pressure drop across porous cryocooler regenerator in evaluating the optimum regenerator porosity. Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 1–16. doi:10.1080/15567036.2019.1649321 **Impact Factor: 1.184**

7. **Arulprakasajothi, M.**, Elangovan, K., Chandrasekhar, U., & Suresh, S. (2018). Performance study

of conical strip inserts in tube heat exchanger using water based titanium oxide nanofluid. Thermal

Science, 22(1 Part B), 477–485. doi:10.2298/tsci151024250a. **Impact Factor: 1.574**

**8. Arulprakasajothi, M.,** Elangovan, K., Chandrasekhar, U., & Suresh, S. **(2018).** Experimental

Studies of Water-based Titanium Oxide Nanofluid in a Circular Pipe under Transition Flow with Conical Strip Inserts. Heat Transfer Research, 49(5), 439–456.

doi:10.1615/heattransres.2018015783. **Impact Factor: 1.199**

**9. Arulprakasajothi Mahalingam,** Munuswamy, D. B., Devarajan, Y., & Radhakrishnan, S. **(2018).**

Emission and performance analysis on the effect of exhaust gas recirculation in alcohol-biodiesel aspirated research diesel engine. Environmental Science and Pollution Research, 25(13), 12641–

12647. doi:10.1007/s11356-018-1522-4 **Impact Factor: 3.056**

**10. Arulprakasajothi Mahalingam, (2018).** Investigation on The Emission Reduction Technique In

Acetone-Biodiesel Aspirated Diesel Engine. Journal of oil Palm Research.

Doi:10.21894/Jopr.2018.0020 **Impact Factor: 0.427**

**11. Devarajan, Y., Munuswamy, D. B., & Arulprakasajothi Mahalingam, (2018).** Influence of nanoadditive

on performance and emission characteristics of a diesel engine running on neat neem oil biodiesel. Environmental Science and Pollution Research, 25(26), 26167–26172.

doi:10.1007/s11356-018-2618-6 **Impact Factor: 3.056**

**12. Devarajan, Y., Arulprakasajothi Mahalingam,** Munuswamy, D. B., & Nagappan, B. **(2018).**

Emission and combustion profile study of unmodified research engine propelled with neat biofuels.

13. Environmental Science and Pollution Research, 25(20), 19643–19656. doi:10.1007/s11356-018-

2137-5 **Impact Factor: 3.056**

**14. Devarajan, Y., Arulprakasajothi Mahalingam,** Munuswamy, D. B., & Arunkumar, T. **(2018).**

Combustion, Performance, and Emission Study of a Research Diesel Engine Fueled with Palm Oil Biodiesel and Its Additive. Energy & Fuels, 32(8), 8447–8452.

doi:10.1021/acs.energyfuels.8b01125 **Impact Factor: 3.421**

**15. Devarajan, Y., Munuswamy, D. B., & Arulprakasajothi Mahalingam, (2017).** Performance,

combustion and emission analysis on the effect of ferrofluid on neat biodiesel. Process Safety and

Environmental Protection, 111, 283–291. doi:10.1016/j.psep.2017.07.021 **Impact Factor: 4.384**

**16. Devarajan, Y., Munuswamy, D. B., Arulprakasajothi Mahalingam,** & Nagappan, B. **(2017).**

Performance, Combustion, and Emission Analysis of Neat Palm Oil Biodiesel and Higher Alcohol

Blends in a Diesel Engine. *Energy & Fuels*, 31(12), 13796–13801.

doi:10.1021/acs.energyfuels.7b02939 **Impact Factor: 3.421**

17. **Arulprakasajothi, M.**, Elangovan, K., Hema Chandra Reddy, K., & Suresh, S. (2015).

Experimental investigation on heat transfer effect of conical strip inserts in a circular tube under laminar flow. *Frontiers in Energy*, 10(2), 136–142. doi:10.1007/s11708-015-0389-z. **Impact**

**Factor: 2.657**

#### **International Conference**

1. Srinivasan, K. V., Manimaran, A., **Arulprakasajothi, M.**, Revanth, M., & Arolkar, V. A. (2019).

Design and development of porous regenerator for Stirling cryocooler using additive manufacturing. *Thermal Science and Engineering Progress*, 11, 195–203.

doi:10.1016/j.tsep.2019.03.013

2. Vinoth Kanna, I., **Arulprakasajothi, M.**, & Eliyas, S. (2019). A detailed study of IC engines and

a novel discussion with comprehensive view of alternative fuels used in petrol and diesel engines.

*International Journal of Ambient Energy*, 1–9. doi:10.1080/01430750.2019.1614994

3. **Arulprakasajothi M**, Chandrasekhar U, Elangovan K, Yuvarajan D. (2018) Influence of conical

strip inserts in heat transfer enhancement under transition flow. *International Journal of Ambient*

*Energy*. Informa UK Limited; 2018 May 21;1–6. Available from:

<http://dx.doi.org/10.1080/01430750.2018.1472651>

4. **Arulprakasajothi M**, Chandrasekhar U, Yuvarajan D, Teja MB. (2018) An analysis of the implications of air pollutants in Chennai. *International Journal of Ambient Energy* Informa UK Limited; 2018 Apr 11;1–5. Available from: <http://dx.doi.org/10.1080/01430750.2018.1443504>

5. **Arulprakasajothi Mahalingam, A.**, Devarajan, Y., Radhakrishnan, S., Vellaiyan, S., & Nagappan, B. (2017). Emissions analysis on mahua oil biodiesel and higher alcohol blends in diesel

engine. *Alexandria Engineering Journal*. <https://doi.org/10.1016/j.aej.2017.07.009>

6. Yuvarajan, D., Ramanan, M. V., Selvam, D. C., **Arulprakasajothi, M.**, & Kumar, N. B. (2017).

Emission Analysis of Mustard Oil Methyl Oil Methyl Ester at Varying Injection Timing. *Indian Journal of Science and Technology*, 9(S1). <https://doi.org/10.17485/ijst/2016/v9is1/103312>

7. **Arulprakasajothi Mahalingam** Kadayam Venkatraman Srinivasan, Manimaran Arunachalam,

(2017), Operational Up-Gradation of Stirling-8 Liquid Nitrogen Plant, *Engineering and Technology*, 4- 2, <http://www.aascit.org/journal/archive2?journalId=896&paperId=4769>

8. **Arulprakasajothi, M.**, Elangovan, K., Hemachandra Reddy, K., & Suresh, S. (2015).

Experimental Study of Preparation, Characterisation and Thermal Behaviour of Water-Based Nanofluids Containing Titanium Oxide Nanoparticles. *Applied Mechanics and Materials*, 766-767, 348–354. <https://doi.org/10.4028/www.scientific.net/amm.766-767.348>

9. **Arulprakasajothi, M.**, Elangovan, K., Reddy, K. H., & Suresh, S. (2015). Heat Transfer Study of Water-based Nanofluids Containing Titanium Oxide Nanoparticles. Materials Today: Proceedings, 2(4-5), 3648–3655.<https://doi.org/10.1016/j.matpr.2015.07.123>

### **National Conference**

1. Mycherla Rajendra, Kuchusindri, **M.Arulprakasajothi** , D.Yuvarajan, Development on strirling engine with various heat Recourse, presented in National level Conference on Design, Materials & Construction- NCDMC-17, 21&22 April ,2017, Vel Tech Rangarajan Dr sagunthala R&D Institute of science and technology, Chennai.
2. Bhanu Teja Maradana,S. Monisan John bosko, **M.Arulprakasajothi** , R.Varatharajan ,T.Ramesh  
,The changing Face of Ambient Air quality in tamil Nadu the Effects of the pollutants. presented in National level Conference on Design, Materials & Construction- NCDMC-17, 21&22 April ,2017, Vel Tech Rangarajan Dr sagunthala R&D Institute of science and technology, Chennai.
3. **M.Arulprakasajothi** "Effect of different tube inserts in Tube Heat Exchanger" in NAFEMS Regional Conference held at Chennai, February 06-08, 2015.
4. **M.Arulprakasajothi** "High Density Fuel from Agro/Forest Residue Using Torrefaction" Paper presented at National Conference on Energy security for Rural Development (ESRD) 2009, Gandhigram Rural University, Dindugal.