## Dr. B. Kanimozhi

Professor Mechanical Engineering Sathyabama University India

Publications in SCI, WOS indexed Journals

- 1. Sriram, V., **Kanimozhi, B.,** Prakash, S., Durairaj, R.B., Mageshwaran, G., Jeevahan, J., Sathya, K., "Performance evaluation of room coupled with solar chimney and underground cooling methods," *AIP Conference Proceedings*, vol. 2283, no. 1, p. 020109, Oct. 2020, doi: 10.1063/5.0024906.
- 2. V. Sriram and **B. Kanimozhi**, "Experimental investigation of corrosion properties of solar receiver pipe made of SS304," *AIP Conference Proceedings*, vol. 2283, no. 1, p. 020041, Oct. 2020, doi: 10.1063/5.0024935.
- 3. V. Sriram, **B. Kanimozhi**, and S. Manigandan, "Comparative analysis of hexagonal boron nitride coated on copper winding in the saline-based heat pipe," *DWT*, vol. 195, pp. 267–274,2020, doi: 10.5004/dwt.2020.25855.
- 4. V. Sriram and **B. Kanimozhi**, "Enhancement of surface temperature distribution of solar receiver tube using coil winding," *International Journal of Ambient Energy*, vol. 41, no. 8, pp. 861–865, Jul. 2020, doi: 10.1080/01430750.2018.1484810.
- 5. V. Sriram and **B. Kanimozhi**, "Investigation of the Effect of Different Materials on Uniform Heat Distribution Over a Solar Collector Pipe," *Journal of Computational and Theoretical Nanoscience, vol. 17, issue 5, pp. 2021–2023*, vol. 17, pp. 2021–2023, May 2020, doi: 10.1166/jctn.2020.8842.
- 6. **B. Kanimozhi** *et al.*, "Colloidal release in high temperature porous media with oversaturated fines during supercritical CO2 transport," *Journal of Petroleum Science and Engineering*, vol. 192, p. 107345, Sep. 2020, doi: 10.1016/j.petrol.2020.107345.
- 7. S. Mahalingam, V. Pranesh, **B. Kanimozhi**, V. Thamizhmani, and T. A. Selvakumar, "Subcritical CO.sub.2 effects on kaolinite fines transport in porous limestone media.," *Journal of Petroleum Exploration and Production Technology*, vol. 10, no. 3, pp. 883–892, Mar. 2020.
- 8. M. Anish, G. S. Kumar, N. Beemkumar, **B. Kanimozhi**, and T. Arunkumar, "Performance study of a domestic refrigerator using CuO/AL2O3-R22 nanorefrigerant as a working fluid," *International Journal of Ambient Energy*, vol. 41, no. 2, pp. 152–156, Jan. 2020, doi: 10.1080/01430750.2018.1451376.
- 9. **B. Kanimozhi**, J. Prakash, R. V. Pranesh, and S. Mahalingam, "Numerical and experimental investigation on the effect of retrograde vaporization on fines migration and

- drift in porous oil reservoir: roles of phase change heat transfer and saturation," *J Petrol Explor Prod Technol*, vol. 9, no. 4, pp. 2953–2963, Dec. 2019, doi: 10.1007/s13202-019-0692-z.
- 10. **B. Kanimozhi**, V. Thamizhmani, V. Pranesh, S. Senthil, and T. Arun Selvakumar, "Kaolinite fines colloidal flow in high temperature porous carbonate media during saline water injection," *Journal of Petroleum Science and Engineering*, vol. 175, pp. 775–784, Apr. 2019, doi: 10.1016/j.petrol.2019.01.023.
- 11. M. Anish, T. Arunkumar, **B. Kanimozhi**, J. Jayaprabakar, N. Beemkumar, and V. Jayaprakash, "Experimental exploration and theoretical certainty of thermal conductivity and viscosity of MgO-therminol 55 nanofluid," *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, vol. 41, no. 4, pp. 451–467, Feb. 2019, doi: 10.1080/15567036.2018.1520329.
- 12. **B. Kanimozhi**, Y. Nitin shinde, S. Paul Bedford, K. Swaroop Kanth, and S. Vikash Kumar, "Experimental Analysis of Solar Water Heater Using Porous Medium with Agitator," *Materials Today: Proceedings*, vol. 16, pp. 1204–1211, Jan. 2019, doi: 10.1016/j.matpr.2019.05.215.
- 13. M. Anish, **B. Kanimozhi**, S. Ramachandran, J. Jayaprabakar, and N. Beemkumar, "Analysis of heat transfer through a high strength concrete with circular pipe in a safety vessel of reactor vault," *International Journal of Ambient Energy*, vol. 39, no. 7, pp. 678–684, Oct. 2018, doi: 10.1080/01430750.2017.1324820.
- 14. **B. Kanimozhi**, J. Prakash, V. Pranesh, V. Thamizhmani, and R. C. Vishnu, "Fines surface detachment and pore-throat entrapment due to colloidal flow of lean and rich gas condensates," *Journal of Natural Gas Science and Engineering*, vol. 56, pp. 42–50, Aug. 2018, doi: 10.1016/j.jngse.2018.05.030.
- 15. V. Pranesh, S. Balasubramanian, S. Mahalingam, S. Ravikumar, T. C. Michael, and **B. Kanimozhi**, "Ignition Behavior of Benzoic Resin Solid Fuel Pellets over a Surface Induction Heating Plate Using a Liquefied Petroleum Gas Flame Ignitor," *Energy Fuels*, vol. 32, no. 7, pp. 7888–7897, Jul. 2018, doi: 10.1021/acs.energyfuels.8b01256.
- 16. M. Anish, **B. Kanimozhi**, and S. Ramachandran, "Experimental study of cooling water pipe circuits by theoretical and numerical analysis in a reactor vault," *International Journal of Ambient Energy*, vol. 39, no. 3, pp. 217–220, Apr. 2018, doi: 10.1080/01430750.2017.1280086.
- 17. M. Anish, **B. Kanimozhi**, S. Ramachandran, and J. Vanjinathan, "Thermal analysis of square pipes in a reactor vault," *null*, vol. 39, no. 2, pp. 159–164, Feb. 2018, doi: 10.1080/01430750.2017.1280085.
- 18. V. Sriram and **B. Kanimozhi**, "Design and analysis of reflectivity for Mylar-coated solar dish," *null*, vol. 39, no. 1, pp. 51–53, Jan. 2018, doi: 10.1080/01430750.2016.1230781.

- 19. M. Anish and **B. Kanimozhi**, "Experimental investigation and heat transfer process on longitudinal fins with different notch configuration," *International Journal of Ambient Energy*, vol. 39, no. 1, pp. 34–37, Jan. 2018, doi: 10.1080/01430750.2016.1222965.
- 20. M. Anish, **Dr. B. Kanimozhi,** Balakrishnan, B. N, and J. Jayaprapakar, "Experimental and numerical analysis of heat transfer from main vessel to safety vessel using H2O/Al2O3 nanofluid in a nuclear reactor vault," *DESALINATION AND WATER TREATMENT*, vol. 114, pp. 135–145, Jan. 2018, doi: 10.5004/dwt.2018.22384.
- 21. M. Anish and **B. Kanimozh**, "Experimental study of heat transfer through cooling water circuit in a reactor vault by using Al2O3 Nanofluid," *Thermal Science*, vol. 22, pp. 207–207, Jan. 2017, doi: 10.2298/TSCI170527207A.
- 22. A. Vijayalakshmi and **Dr. B. Kanomozhi**, Balakrishnan, "Hall, Magneto Hydrodynamic and Radiation Effects on Rotating Fluid Past a Moving Vertical Plate with Mass Diffusion," *Journal of Computational and Theoretical Nanoscience*, vol. 14, pp. 5761–5769, Dec. 2017, doi: 10.1166/jctn.2017.7010.
- 23. M. Anish, **B. Kanimozhi**, and S. Ramachandran, "Experimental analysis of heat transfer through multiple reflecting bodies in a reactor-based cooling vault," *null*, vol. 38, no. 8, pp. 865–870, Nov. 2017, doi: 10.1080/01430750.2016.1222964.
- 24. **B. Kanimozhi**, B. R. Ramesh Bapu, and V. Pranesh, "Thermal energy storage system operating with phase change materials for solar water heating applications: DOE modelling," *Applied Thermal Engineering*, vol. 123, pp. 614–624, Aug. 2017, doi: 10.1016/j.applthermaleng.2017.05.122.
- 25. B. Balakrishnan and **B. Kanimozhi**, "Design and Analysis of Boiler Pressure Vessels based on IBR codes," *IOP Conf. Ser.: Mater. Sci. Eng.*, vol. 197, p. 012045, May 2017, doi: 10.1088/1757-899X/197/1/012045.
- 26. **B. Kanimozhi**, K. Harish, B. S. Tarun, P. S. S. Reddy, and P. S. Sujeeth, "Charging and Discharging Processes of Thermal Energy Storage System Using Phase change materials," *IOP Conf. Ser.: Mater. Sci. Eng.*, vol. 197, p. 012040, May 2017, doi: 10.1088/1757-899X/197/1/012040.
- 27. V. Ramanathan, **B. Kanimozhi**, and V. K. Bhojwani, "Experimental study on productivity of modified single-basin solar still with a flat plate absorber," *IOP Conf. Ser.: Mater. Sci. Eng.*, vol. 197, p. 012032, May 2017, doi: 10.1088/1757-899X/197/1/012032.
- 28. R. Thamaraikannn, **B. Kanimozhi**, M. Anish, J. Jayaprabakar, P. Saravanan, and A. R. Nicholas, "Review of Phase Change Materials Based on Energy Storage System with Applications," *IOP Conf. Ser.: Mater. Sci. Eng.*, vol. 197, p. 012034, May 2017, doi: 10.1088/1757-899X/197/1/012034.