

Publication List of Dr.C BALAJI,Professor, Indian Institute of Technology Madras, Chennai:

1. Marri, G. K and **C. Balaji**,Experimental and numerical investigations on a phase change material based heat sink with symbiotically joined heat pipe, Heat Transfer Engineering (2019)
2. Godi, S. C., A. Pattamatta , **C. Balaji** ,Effect of the inlet geometry on the flow and heat transfer characteristics of three dimensional wall jets, ASME Journal of Heat Transfer (2019)
3. Rahul Yadav, **C Balaji**, SP Venkateshan, Analysis of Radiative Transfer in body-fitted axisymmetric geometries with band models and anisotropic scattering, Computational Thermal Sciences (2019)
4. Sangamesh C. Godi, Satyanand Abraham,Arvind Pattamatta,**C. Balaji**, Evaluation of Candidate Strategies for the Estimation of Local Heat Transfer Coefficient from Wall Jets, Experimental Heat Transfer,(2019)
5. Rahul Yadav, **C. Balaji** and S. P. Venkateshan,Inverse estimation of number and location of discrete heaters in radiant furnaces using artificial neural networks and genetic algorithm,Journal of Quantitative Spectroscopy and Radiative Transfer (JQSRT) 226 (2019): page no.127-137.
6. Govind Rao Yenni, Amrit Ambirajan, **C. Balaji** and S. P. Venkateshan,Emissivity Estimation of Space Craft Thermal Control Surfaces at Cryogenic Temperatures - A Novel Experimental Approach,Heat transfer Engineering **2018**,1-12.
7. B Kotresha, N Gnanasekaran and **C. Balaji** Numerical Simulations of Flow Assisted Mixed Convection in a Vertical Channel Filled with High Porosity Metal Foams Heat transfer Engineering 41(8) **2019**.
8. Partha Sarathy, U., **Balaji**, C., Sudararajan, T. et al.,Numerical modeling of FBR safety grade decay heat removal system and its validation,Int J Adv Eng Sci Appl Math (2018)
9. Samarjeet Chanda, **C. Balaji** and S. P. Venkateshan,Non-intrusive measurement of thermal contact conductance at polymer-metal two dimensional annular interface,Heat Mass Transfer (2018)
10. Sandeep, C. P. R., C. Krishnamoorthy, and **C. Balaji**,Impact of cloud parameterization schemes on the simulation of cyclone Vardah using the WRF model,Current Science (00113891), 115(6).
11. Krishnamoorthy C and **C. Balaji**,Ingesting microwave sounder radiances for improvement in track forecast of cyclone Vardah,Journal of Applied Remote Sensing 12(2), 026015 (2018)
12. Jakkareddy, Pradeep S., and **C. Balaji**.,A non-intrusive technique to determine the spatially varying heat transfer coefficients in a flat plate with flush mounted heat sources.,International Journal of Thermal Sciences Volume 131, September **2018**, Pages 144-159.

13. Jakkareddy, Pradeep S., and **C. Balaji**, Estimation of local heat transfer coefficient from natural convection experiments using liquid crystal thermography and Bayesian method Experimental Thermal and Fluid Science Volume 97, October **2018**, Pages 458-467
14. Naresh Yarramsetty, Shrivignesh, **C. Balaji**, Experimental investigations of the thermal performance of self rewetting fluids in internally finned wickless heat pipes, Experimental Thermal and Fluid Science 92 (**2018**): 436-446.
15. Srikanth, Srinivas Sridharan, **C. Balaji**, Multi objective geometric optimization of phase change material based cylindrical heat sinks with internal stem and radial fins, Thermal Science and Engineering Progress 5 (**2018**): 238-251.
16. Y Naresh, **C Balaji**, Thermal performance of an internally finned two phase closed thermosyphon with refrigerant R134a: A combined experimental and numerical study, International Journal of Thermal Sciences, **2018**
17. H. Kumar, S. Kumar, Gnanasekaran ,**C Balaji**, A Markov Chain Monte Carlo-Metropolis Hastings Approach for the Simultaneous Estimation of Heat Generation and Heat Transfer Coefficient from a Teflon Cylinder, Heat Transfer Engineering 39.4 (**2018**): 339-352.
18. Neeraj Sinai Borker, **C Balaji**, Numerical Investigation of Flow and Heat Transfer from Impinging Jets on a Target Surface with Protrusions, Heat Transfer Engineering, **2018**
19. Harsha Kumar MK, PS Vishweshwara, N Gnanasekaran, **C Balaji**, A combined ANN-GA and experimental based technique for the estimation of the unknown heat flux for a conjugate heat transfer problem, Heat and Mass Transfer, 1-13, **2018**
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21. S. Reetik Kumar, B. Konda Reddy and **C. Balaji**, Application of Hybrid Monte Carlo Algorithm in Heat Transfer, J. Heat Transfer 139(8), 082004 (Apr 19, **2017**)
22. R Srikanth and **C. Balaji** Heat Transfer Correlations for a Composite PCM based Pin Fin Heat Sink with Discrete Heating at the base, INAE Letters 2.3 (**2017**): 65-71.
23. Renju Kurian, **C. Balaji**, S.P. Venkateshan, An Experimental Study on Hydrodynamic and Thermal Performance of Stainless Steel wire mesh blocks in a vertical channel, Experimental Thermal and Fluid Science 86 (**2017**): 248-256.
24. Pulla Rao.M, **Balaji.C** and S.P.Venkateshan, Experimental investigation on heat transfer from square jets issuing from perforated nozzles, Heat and Mass Transfer 53.7 (**2017**): 2363-2375.
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26. Pradeep S Jakkareddy, **C Balaji**, A methodology to determine boundary conditions from forced convection experiments using liquid crystal thermography Heat and Mass Transfer, **2017**

27. Rahul Yadav, **C Balaji** and S P Venkateshan, Implementation of SLW model in the radiative heat transfer problems with particles and high temperature gradients, International Journal of Numerical Methods for Heat and Fluid Flow, Vol. 27 Issue: 5, pp.1128-1141, 2016
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35. R. Srikanth Rohit S Nair **C. Balaji**, Thermosyphon assisted melting of PCM inside a rectangular enclosure: A synergistic numerical approach, Journal of Physics (Conference Series), **2016**
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