

FACULTY RESEARCHER PROFILE TEMPLATE

Name	Dr. T. MAHALAKSHMI	Degrees	M.SC., M.PHIL., PGDCA.,PH.D., PDF(Taiwan).
Image for home page	Google drive link can be shared—yet to create		
Faculty Profile	Mahalakshmi Thangavelu received her Ph. D in Computational Fluid Dynamics from Bharathiar University, India. She was a Post-Doctoral Research Fellow in Department of Engineering Science at National Cheng Kung University, Taiwan. Her research work concerns numerical analysis of heat transfer enhancement in enclosures with heat sources utilizing nanofluids.		
Keywords	Natural convection, nanofluids, heat transfer, heat sources		
RESEARCH PROJECTS / FOCUS AREAS			
Title and description of research projects and Ph.D Research / focus areas (Minimum 100 Words about each projects)	<p>Title and description of research projects: Project not yet undertaken in KGCAS.</p> <p>Ph.D Research:</p> <ol style="list-style-type: none"> 1. As the proper enhancement and modification of heat transfer in equipment cooling has potential applications, my research work is expected for providing qualitative suggestions which may improve the thermal design of the sealed enclosure. 2. Convection heat transfer takes place inside the nanofluid filled enclosure for the considered center heater at both orientations are utilized to transfer the emitted heat from the enclosure with the central heater. 3. Moreover, my research work has made significant contribution in various thermal engineering applications like electronic device cooling, thermal energy storage, heating/cooling of building and solar collectors. Likewise, MHD natural convection of ag-water nanofluid with heat source inside enclosures in the presence of IHG has applications like geothermal energy systems and nuclear reactors. Also, MHD mixed convection of Ag-water nanofluid with heat sources has applications in cooling of electronic devices, voltage transforms. Currently, mixed convection of Ag-water nanofluid with heat sources in porous media has received more applications in porous insulation, packed bed reactors, nuclear waste disposal, food processing, grain storage and geophysics. <p>Focus Area: Convection of Hybrid Nanofluids in Enclosures with heat Sources.</p>		

PUBLICATIONS

1. <https://doi.org/10.1016/j.ijmecsci.2018.05.008>

In this research article mixed convection of nanofluid inside lid driven enclosure is examined and obtained the result under which lid driven direction of the enclosure, the high heat transfer was obtained.

2. <https://doi.org/10.1016/j.cjph.2018.06.006>

In this research article natural convective heat transfer in square enclosure was analyzed utilizing Ag-water nanofluid.

3. DOI: <https://dx.doi.org/10.12941/jksiam.2017.21.225>

In this research article, Magneto hydro dynamic natural convective heat transfer in enclosure with heat source was investigated.

Google Scholar ID	DR. T MAHALAKSHMI KG COLLEGE OF ARTS AND SCIENCE
Research Gate ID	Saimaha13@gmail.com
Orchid ID	https://orcid.org/0000-0002-2605-1290

FACULTY MEMBER CONTACT SECTION

Email	Mahalakshmi.t@kgcas.com
Office Address	Dept. of Mathematics, KGCAS, Coimbatore.
Phone No & E-Mail ID.	9600936060 Saimaha13@gmail.com