

Faculty Profile of Dr. M. Muthtamilselvan



Dr. M. Muthtamilselvan
Associate Professor
Department of Mathematics

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Research Area

- Fluid Dynamics
- Applied Mathematics
- Nanofluids

Education & Career

Education

Ph. D.

Subject : Mathematics,
Institution : Bharathiar University
Affiliated University : Bharathiar University
Year of Award :2008

M.Phil.,

Subject :Mathematics
Institution : Bharathiar University
Affiliated University : Bharathiar University
Year of Award :2005

M. Sc.,

Subject: Mathematics
Institution : Sri Ramakrishna Mission Vidyalaya College of Arts and Science
Affiliated University : Bharathiar University
Year of Award :2003

B. Sc.,

Subject: Mathematics
Institution: Government Arts College, Dharmapuri.
Affiliated University: Periyar University
Year of Award: 2001

Career**At Bharathiar University (Reverse Order)**

Associate Professor: August 2021 to Till Date
Assistant Professor : March 2011 to August 2021

Past Experience

Assistant Professor : Anna University of Technology Tirunelveli, Tirunelveli
, Sep 2009 to March 2011

Lecturer/ Asst. Professor: Kalaigarnar Karunanidhi Institute of Technology,
Coimbatore , May 2008 to Sep 2009.

Awards

Academic awards

S.No. , Awarding agency, Country , Purpose of award , Date of Award

1. "2022 Top 2% Scientists in the world", published by the research team of Stanford University, USA, 2023
2. National Science Academies', India, Academies' Lecture Workshop grant, 2017 .
3. DST Govt. of India , India, Young Scientist Project Award , September 2013
4. Elsevier , Top Citation Paper Award, 2012
5. DST Govt. of India, India , International Travel Grant, July 2011

Travel awards

S.No. , Funding agency, Name of conference , Country, Paper presented(Oral/Poster), Title of paper, Dates

1. DST, International Symposium on Bifurcation and Instabilities in Fluid Dynamics, Spain, 2012
2. NBHM, ICIAM 2023, Tokyo, Japan, 2023

Membership

1. Nominated Member in National Academy of Sciences, Allahabad, Since 2022

Visits

Sl No. Countries Visits Duration of Visit Month and Year Purpose of Visit

1. Chungbuk National University, South Korea, May and June 2023, Visiting Professor
2. United Arab University, UAE, 15th May to 29th May 2022, Visiting Researcher
3. Korea Maritime and Ocean University, South Korea , 2 months, 2012, 2 months, 2017, 1 months, 2019, May & June 2012, and May & June 2017, 8th May & 9th June 2019, Visiting Professor
4. Shandong Normal University, China , 11days, 14th Dec. to 25th Dec. 2018 , Visiting Professor
5. University of Catalonia, Spain , 4 days, 18th to 21st July 2011 , International Symposium
6. Inha University, South Korea, 2 months, March & April 2008 , Short term Visiting Fellow

Collaborators

Others

Projects

Funded Projects (National Level)

- [Ongoing](#)
- [Completed](#)

Ongoing Projects List with necessary Information

Numerical investigation of lid-driven cavity filled with Cu-water nanofluid

Dr. M Muthtamilselvan

SERB DST

2013 -2016

11.04 (Rs. In Lakhs)

MHD convection in a 3-D lid-driven cavity filled with nanofluids

Dr. M Muthtamilselvan

CSIR

2013 -2016

10.86 (Rs. In Lakhs)

Numerical and analytical analysis of flow structures and heat transfer of smart liquids in different medicine applications

Dr. M Muthtamilselvan

TNSCHE

2021 -2024

3.62 (Rs. In Lakhs)

Consultancy Projects

- [Ongoing](#)
- [Completed](#)

Ongoing Consultancy Project Informations

Completed Consultancy Project Informations

Research Guidance

- [Post Doc.](#)
- [Ph.D.](#)
- [M.Phil.](#)
- [M.Sc.](#)

Ongoing

Title

Name

Completed

Title

Name

Ongoing

Sl No.	Name of the candidate	Supervisor/Co-Supervisor	Title of the Thesis	Year
1.	S. SRIDHAR			
2.	V. NAVANEETHAKRISHNAN			
3.	Y. M. GIFTEENA HINGIS			
4.	P.M. RENUPRIYA			

Completed

Sl No.	Name of the candidate	Supervisor/Co-Supervisor	Title of the Thesis	Year
1.	D. Prakash,		Transient convective transport phenomena of nanofluid saturated porous media,	2014
2.	S. Sureshkumar,		Numerical study on mixed convection in a nanofluid-saturated porous cavity,	2017

3. K. Periyadurai, Natural convection of micropolar fluid in a square cavity in the presence of heat source, 2018
4. E. Ramya , Inclined Lorentz force on transient heat and mass transfer flow of micropolar fluid, 2018
5. A. Renuka, A study of nanofluid flow of heat and mass transfer in a rotating system, 2019
6. P. Gokulavani, Convection in open cavity with heated baffles, 2020
7. S. Suganya, Radiating and rotating flow of various hybrid nanofluids over a stretching sheet, 2021
8. B. Kanimozhi, Combined buoyancy and Marangoni convection in a cylindrical porous annulus filled with hybrid nanofluid, 2022
9. R. Surendar, Hyper Chaos stabilization and synchronization of Darcy-Brinkman model for closed-loop control, 2023

Ongoing

Sl. No. Name of the candidate Title of the Thesis Year

1. Archana, 2022

Completed

Sl. No. Name of the candidate Title of the Thesis Year

- 1.M.RAMYA, Study of visco-elastic fluid flow and heat transfer over a stretching sheer with variable viscosity and thermal radiation, October 2012
- 2.S.K. SUBASHINI, MHD heat transfer in a liquid film over an unsteady stretching sheet in the presence of non-uniform heat source/sink, October 2012
- 3.S. SAVITHA, Fully developed forced convection in a porous channel with a

first order catalytic reaction, October 2013

4. J. SHALINI, Effect of radiation on unsteady MHD micropolar fluid flow through a porous channel with convection from ambient, October 2013

5. K. PERIYADURAI, Numerical simulation of natural convection heat transfer of nanofluids in an inclined enclosure in the presence of magnetic field with sinusoidal temperature profile, September 2014

6. T. ANANTHI, Effect of magnetic field on a free convection in a square cavity with sinusoidal boundary condition containing internal heat source, September 2014

7. M. SINDHU, Effect of radiation on MHD free convection flow of a micropolar fluid through state-space approach, September 2015

8. G. SATHYAPRIYA, MHD heat transfer in a liquid film over an unsteady porous stretching sheet, September 2015

9. A. ARTHI, Effect of heat generation on transient flow of micropolar fluid between porous vertical channel, September 2015

10. M. PUSPARAJAN, A similarity solution of laminar separated fluids with a flat plate in the presence of radiation, September 2015

11. V. SARANYA SREEDHARAN, Transient heat and mass transfer of micropolar fluid between porous vertical channel with boundary conditions of third kind
September 2015

12. S. GNANASEKARAN, Effect of magnetic field on unsteady natural convection deter in an air filled square cavity, November 2016

13. B.HEMA, Thermophoretic particle deposition on magnetohydrodynamic flow of the micropolar fluid due to rotating disk, November 2016
14. S. SUGANYA, Active and passive controls for unsteady flow of the Williamson nanofluid contacting gyrostatic micro-organisms , November 2016
15. P. GOKULAVANI, Internal heat generation of a dusty fluid through porous medium over a stretching sheet, November 2016
16. M. SOUNDHARAN, Natural convection in a square cavity with the horizontal heated plate, November 2017
17. P. REVATHI, Effects of thermal radiation on a 3D sisko fluid over a porous medium using Cattaneo-Christov heat flux model, November 2017
18. T. VIDHYA, MHD stagnation point flow of dusty casson fluid with thermal radiation and bouncy effects, November 2017
- 19.C. SAMINATHAN, Homogeneous and heterogeneous reaction effects on micropolar nanofluid with viscous dissipation, November 2017
20. B. SWATHENE, Homogeneous and heterogeneous reactions in a nanofluid flow due to a rotating disk of variable thickness in the presence of injection and suction
November 2017
- 21.M. SUGANTHI,A mathematical analysis of unsteady flow of rotating cone in a Jeffrey fluid in a porous medium with heat flux, Nov. 2018
- 22.R. SURENDAR, Natural convection in a partially heated square cavity with an inner square block, Nov. 2018

- 23.S. KIRUSAKTHIKA, Cattaneo-Christov heat flux model for a vertical embedded in a porous media, Nov. 2018
- 24.D. Prabu, Stagnation point flow and heat transfer of MHD nanofluid containing micro-organism, October 2019
25. K. Kousalya, Hybrid nanofluid velocity slip flow over a permeability of a porous medium, 2021
26. Y. M. Gifteena Hingis, Theoretical study of gold nanoparticles and microorganisms in the blood flow of a regular catheterized multi-stenosed artery, 2022

Ongoing

Sample Data.

Completed

Sl. No. Name of the candidate Title of the Dissertation Year

- 1.A.Janet, Analytical study for a circular membrane ,2012
- 2.K. P. Karthik, Solutions of coupled nonlinear PDE, 2012
- 3.K. Periyadurai, Analytical numerical method for non-linear PDE, 2013
- 4.G. Indumathi,Numerical simulations of Burgers equation, 2013
- 5.S. Uthra,Analytical determination of buckling load of a delaminated plate, 2013
- 6.M. Maria pravin, A successive linearized method approach for solving general BLP, 2015
- 7.P. Gokulavani,Effect of liquid loading on lamb waves in a plate, 2015
- 8.G. Kiruthika,Effect of uniformly distributed thermal load on bending, 2015
- 9.S. Umasankari,Numerical and Analytical investigation of thermosolutal problems,2015
- 10.S Sindiya,Exact solutions o some partial differential equations, 2016

- 11.D. Sivaranjani, Differential quadrature solutions of 8th order BVP, 2016
- 12.A. Punithaabirami, Exact solutions of nonlinear diffusion equations, 2016
- 13.K. Nivitha, A study on linear programming in sports, 2016
14. S. Gowthaman, Numerical solution of ODE with impulse solution, 2016
- 15.S. Divya, Abstract cryptography using nonlinear algebra, 2016
- 16.G. Archana, The variational iteration method using handling nonlinear equation, 2016
- 17.H. Divya, A cylindrical shock wave in a rotational axisymmetric, 2017
- 18.S. Sivaranjini, Chemical reaction effect on MHD viscoelastic fluid flow, 2017
- 19.S. Aswini, Computational Study of Jeffrey's non-Newtonian fluid, 2017
- 20.M. Sabeetha, Onset of triply diffusive convection, 2017
- 21.K. Kousalya, Face detection recognition using eigenfaces, 2019
- 22.S. Ranjitha, Distribution of primes and primality testing, 2019
- 23.B. Kiruthika, Spectral properties of matrices, 2019
- 24.K. Archana, Fractal and its dimensions, 2019
- 25.R. Arivazhagi, Fibonacci sequence, 2019
- 26.K. Karthikeyan, A study on Alfven waves, 2019
- 27.S. Suguna, Projective plane and its properties, 2019
- 28.K. Kokila, sweeping tangent theorem, 2019
- 29.K. Sri Raja priyanka, Applications of Graph theory, 2019

Research Publication

- [International](#)
- [National](#)
- [Patents](#)
- [Conferences](#)
- [Books / Chapters](#)
- [Database](#)

Total No. of International Publications: 97 (As of Oct. 2023)

61. [Impact of injection/suction and entropy generation of the porous open cavity with the hybrid nanofluid.](#)

P. Gokulavani, M. Muthtamilselvan, Bahaaeldin Abdalla

Journal of Thermal Analysis and Calorimetry, Article in Press (2021)

60. [Impact of injection/suction and entropy generation of the porous open cavity with the hybrid nanofluid.](#)

P. Gokulavani, M. Muthtamilselvan, Bahaaeldin Abdalla

Journal of Thermal Analysis and Calorimetry, Article in Press (2021)

59. [Activation energy and chemical reaction on Cu-TiO₂/water hybrid nanofluid flow in an existence of nonlinear radiation.](#)

S Suganya, M Muthtamilselvan, Ziyad Ali.

Applied Nanoscience, 11, 933-949 (2021)

58. [A magneto-bioconvective and thermal conductivity enhancement in nanofluid flow containing gyrotactic microorganism.](#)

Ziyad Ali, A. Renuka M. Muthtamilselvan

Case Studies in Thermal Engineering, 23, 100809 (2021)

57. [Numerical investigation of open cavities with parallel insulated baffles.](#)

P. Gokulavani, M. Muthtamilselvan, Fahad Al-Amri, Bahaaeldin Abdalla, D.H. Doh.

International Journal of Heat and Technology, 38, 611-621 (2020)

56. [An exact solution for unsteady free convection flow of chemically reacting Al₂O₃ - SiO₂/water hybrid nanofluid.](#)

S Suganya, M Muthtamilselvan, Fahad Al-Amri, Bahaaeldin Abdalla

Proc IMechE Part C: J Mechanical Engineering Science, Accepted and Article in Press (2020)

55. [Filtration of radiating and reacting SWCNT-MWCNT/water hybrid flow with the significance of Darcy-Forchheimer porous medium.](#)

S. Suganya, M. Muthtamilselvan, Fahad Al-Amri, Bahaaeldin Abdalla, Deog-Hee Doh.

Arabian Journal for Science and Engineering, Accepted and Article in Press

(2020)

54. [Stagnation point flow of nanofluid containing micro- organisms.](#)

Fahad Al-Amri, M. Muthtamilselvan.

Case Studies in Thermal Engineering, 21: 100656 (2020)

53. [Influence of the Lorentz force on the ventilation cavity having a centrally placed heated baffle filled with the Cu – Al₂O₃ – H₂O hybrid nanofluid .](#)

Rui Du, P. Gokulavani, M. Muthtamilselvan, Fahad Al-Amri, Bahaaeldin Abdalla.

International Communications in Heat and Mass Transfer, 116: 104676, 2020

52. [Effects of orientation of the centrally placed heated baffle in an alternative configured ventilation cavity.](#)

P. Gokulavani, M. Muthtamilselvan, Qasem Al-Mdallal, D.H. Doh

The European Physical Journal- Plus, 135:23 (2020)

51. [MHD convection of nanofluid in porous medium influenced by slanted Lorentz force.](#)

S. Sureshkumar, S. Muthukumar, M. Muthtamilselvan, D.H. Doh, Eswari Prem

The European Physical Journal- Special Topics, 229, 331,346 (2020)

50. [Homogeneous and heterogeneous reactions in a nanofluid flow due to a rotating disk of variable thickness using HAM.](#)

D.H. Doh, M. Muthtamilselvan, B. Swathene, E. Ramya,

Mathematics and Computers in Simulation, 168, 90-110 (2020)

49. [Entropy analysis and nanofluid past a double stretchable spinning disk using Homotopy Analysis Method.](#)

A. Renuka M. Muthtamilselvan, D.H. Doh, C.R. Cho.

Mathematics and Computers in Simulation, 171, 152-169 (2020)

48. [Cattaneo-Christov heat flux model for inclined MHD micropolar fluid flow past a non- linearly stretchable rotating disk.](#)

D.H. Doh, G.R. Cho, E. Ramya, M. Muthtamilselvan.

Case Studies in Thermal Engineering, 14, 100496 (2019)

47. [Effects of homogeneous- heterogeneous reactions in flow of nanofluid between two stretchable rotating disks.](#)

A. Renuka M. Muthtamilselvan, D.H. Doh, G.R. Cho
The European Physical Journal- Special Topics, 228, 2661-2676 (2019)

46. [Combined MHD convection and thermal radiation of nanofluid in a lid-driven porous enclosure with irregular thermal source on vertical sidewalls.](#)

S. Muthukumar, S. Sureshkumar, Ali J. Chamkha, M. Muthtamilselvan, Eswari Prem.

Journal of Thermal Analysis and Calorimetry, 138, 583-596 (2019)

45. [Impact of magnetic field on convective flow of a micropolar fluid with two parallel heat sources.](#)

K Periyadurai, M. Muthtamilselvan, D.H. Doh.

Journal of Applied and Computational Mechanics, 5, 652-666 (2019)

44. [A comparative study of viscosity models in nanofluid flow induced by two rotating disks with homogeneous-heterogeneous reaction.](#)

A. Renuka, M. Muthtamilselvan, D.H. Doh.

Journal of Nanofluids, 8, 1496-1505 (2019)

43. [Stagnation point flow of dusty Casson fluid with thermal radiation and buoyancy effects.](#)

M. Muthtamilselvan .

Journal of Applied Analysis and Computation, 9, 615-627 (2019)

42. [Heat transfer analysis of a Williamson micropolar nanofluid with different flow controls.](#)

M. Muthtamilselvan, E. Ramya, D.H. Doh

J. Mechanics, 35, 381-394 (2019)

41. [Inclined Lorentz force effects on 3D micropolar fluid flow due to a stretchable rotating disks with higher order chemical reaction .](#)

M. Muthtamilselvan, E. Ramya, D.H. Doh.

Proc. Ins. Mech. Engg. J. of Mech. Engineering Science, 233, 223-235 (2019)

40. [Nanofluid flow and heat simultaneously induced by two stretchable rotating disks using Buongiorno's model.](#)

M. Muthtamilselvan, A. Renuka

Multidiscipline Modeling in Materials and Structures, 15, 1115-1128, (2018)

39. [Effect of mutually orthogonal heated plates on buoyancy convection flow of micropolar fluid in a cavity.](#)
M. Muthtamilselvan, K Periyadurai, D.H. Doh.
Int. Journal of Numerical Methods for Heat and Fluid Flow, 28, 2231-2251 (2018)
38. [Effects of thermal radiation on a 3D Sisko fluid over a porous medium using Cattaneo-Christov heat flux model.](#)
Deog-Hee Doh, M. Muthtamilselvan, E. Ramya, P. Revathi
Communications in Theoretical Physics, 70, 230-238 (2018)
37. [Numerical and analytical comparisons of slanted Lorentz forces on thermal radiation flow of a micropolar fluid.](#)
E. Ramya, M. Muthtamilselvan, D.H. Doh, G.R. Cho
Thermal Science, 23, 913-928 (2019)
36. [Internal heat generation of a dusty fluid through porous media over a stretching sheet.](#)
M. Muthtamilselvan, P. Gokulavani, E. Ramya, D.H. Doh.
Journal of Porous Media, 21, 845-863 (2018)
35. [Convective heat transfer in a porous enclosure saturated by nanofluid with different heat sources.](#)
M. Muthtamilselvan S. Sureshkumar
Nonlinear Engineering, 7, 1-16 (2018)
34. [A tilted Lorentz force effect on porous media filled with nanofluid .](#)
M. Muthtamilselvan, S. Sureshkumar.
J. Theoretical and Applied Mechanics, 48, 50-71 (2018)
33. [Absorbing/emitting radiation and slanted hydromagnetic effects on micropolar liquid containing gyrostatic microorganisms .](#)
E. Ramya, M. Muthtamilselvan, D.H. Doh,
Applied Mathematics and Computation, 324, 69-81 (2018)
32. [Impact of heated plate on double-diffusive natural convection of micropolar fluid in a cavity with Soret and Dufour effects.](#)
M. Muthtamilselvan, K Periyadurai, D.H. Doh.

31. [Coupled free and forced convection heat transfer in a porous enclosure saturated by nanofluid with irregular temperature distributions on sidewalls.](#)

M. Muthtamilselvan S.Sureshkumar, D.H. Doh.

International Journal of Chemical Reactor Engineering, 15, 20170151 (2017)

30. [Convection of micropolar fluid in a square cavity with an inside heater.](#)

M. Muthtamilselvan, K Periyadurai, D.H. Doh.

Journal of Thermophysics and Heat Transfer, 31, 817-831 (2017)

29. [Heat transfer in a liquid film over an unsteady porous stretching sheet with different boundary conditions.](#)

M. Muthtamilselvan, E. Ramya.

Australian Journal of Mech. Engg., 15, 187-197 (2017)

28. [Thermophoretic particle deposition on magnetohydrodynamic flow of micropolar fluid due to a rotating disk.](#)

D.H. Doh, M. Muthtamilselvan.

International Journal of Mechanical Sciences, 130, 350-359 (2017)

27. [Effect of uniform and nonuniform heat source on natural convective flow of micropolar fluid.](#)

M. Muthtamilselvan, K Periyadurai, D.H. Doh.

International Journal of Heat and Mass Transfer, 115, 19-34 (2017)

26. [Convective heat transfer in a nanofluid-saturated porous cavity with the effects of aspect ratios and thermal radiation.](#)

M. Muthtamilselvan S. Sureshkumar.

Physics and Chemistry of Liquids, 55, 617-636 (2017)

25. [Effect of heat generation on transient flow of micropolar fluid between porous vertical channel.](#)

M. Muthtamilselvan, D. Prakash, D.H. Doh.

Thermophysics & Aeromechanics, 24, 275-284 (2017)

24. [Impact of aspect ratio on a nanofluid-saturated porous enclosure .](#)

M. Muthtamilselvan S. Sureshkumar.

23. [Transient heat and mass transfer of micropolar fluid between porous vertical channel with boundary conditions of third kind.](#)

D.H. Doh, M. Muthtamilselvan D. Prakash.

Int. J. of Nonlinear Sciences and Numerical Simulation, 17, 231-242 (2016)

22. [Influence of inclined Lorentz force on micropolar fluids in a square cavity with uniform and nonuniform heated thin plate .](#)

K Periyadurai, M. Muthtamilselvan, D.H. Doh.

Journal of Magnetism and Magnetic Materials, 420, 343-355 (2016)

21. [Aspect ratio effects on natural convection in a water saturated porous cavity near its density maximum.](#)

D.H. Doh, M. Muthtamilselvan.

J. Engg. Thermophysics, 25,401-410 (2016)

20. [A slanted porous enclosure filled with Cu-water nanofluid.](#)

S. Sureshkumar, M. Muthtamilselvan.

European Physical Journal – Plus, 131, 95(1-19), (2016).

19. [Unsteady MHD non-Darcian flow over a vertical stretching plate embedded in a porous medium with thermal non- equilibrium model.](#)

M. Muthtamilselvan, D. Prakash, Xiao- Dong

Niu. Advances in Applied Mathematics & Mechanics, 8, 52-6 (2016)

18. [Unsteady hydromagnetic slip flow and heat transfer of nanofluid over a moving surface with prescribed heat and mass fluxes.](#)

M. Muthtamilselvan, D. Prakash.

Proc. Ins. Mech. Engg. J. of Mech. Engineering Science, 299, 703-715 (2015)

17. [Numerical investigation on mixed convection in a cavity filled with nanofluids.](#)

M. Muthtamilselvan .

J. of Int. Academy of Physical Sciences, 18, 101-107 (2014)

16. [Effect of radiation on transient flow of micropolar fluid between porous vertical channel with boundary conditions of the third kind.](#)

D. Prakash, M. Muthtamilselvan.

15. [Effect of thermal non- equilibrium on transient hydromagnetic flow over a moving surface in a nanofluid saturated porous media.](#)

M. Muthtamilselvan, D. Prakash, D.H. Doh.

Journal of Mechanical Science and Technology, 28, 3709-3718 (2014)

14. [Mixed convection of heat generating nanofluid in a lid-driven cavity with uniform and non-uniform heating of bottom wall .](#)

M. Muthtamilselvan D.H. Doh,

Applied Mathematical Modelling, 38, 3164-3174 (2014)

13. Effect of non-uniform heat generation on unsteady MHD non-Darcian flow over a vertical stretching surface with variable properties.

M. Muthtamilselvan, D. Prakash, D.H. Doh.

Journal of Applied Fluid Mechanics, 7, 329-339 (2014)

12. [Effect of non-uniform heat generation on unsteady MHD flow over a vertical stretching surface with variable thermal conductivity .](#)

M. Muthtamilselvan, D. Prakash, D.H. Doh.

J. Mechanics, 30, 199-208 (2014)

11. [Unsteady MHD non-Darcian flow over a vertical stretching plate embedded in a porous medium with non-uniform heat generation.](#)

D. Prakash, M. Muthtamilselvan, D.H. Doh.

Applied Mathematics & Computation, 236, 480-492 (2014)

10. [Magnetic field effect on mixed convection in a lid-driven square cavity filled with nanofluid .](#)

M. Muthtamilselvan, D.H. Doh

J. of Mechanical Science and Technology, 28, 137-143 (2014)

9. [Effect of heat generation on forced convection through a porous saturated duct.](#)

D. Prakash, M. Muthtamilselvan, D.H. Doh,

Transport in Porous Media, 95, 377-388 (2012)

8. [Double diffusive convection in a porous cavity near its density maximum.](#)

M. Muthtamilselvan and Manab Kumar Das.
Journal of Porous Media, 15, 765-774 (2012)

7. [Mixed convection in a lid-driven square cavity filled with nanofluids.](#)
M. Muthtamilselvan and R. Rakkiyappan
Nanoscience and Technology: An International Journal, 2, 275-294 (2011)
6. [Transient buoyancy-driven convection of water saturated porous cavity near its density maximum.](#)
M. Muthtamilselvan .
Inter. J. Comp. Methods in Eng. Science & Mechanics, 12, 270-277 (2011)
5. Mixed convection in a lid-driven cavity utilizing nanofluids .
M. Muthtamilselvan .
CFD letters, 2, 163-175 (2010).
4. [Hydromagnetic mixed convection in a two-sided lid- driven porous enclosure.](#)
M. Muthtamilselvan, J. Lee and P. Kandaswamy
Int. J. of Fluid Mechanics Research, 37, 406-423 (2010)
3. [Convection in a lid-driven heat- generating porous cavity with alternative thermal boundary conditions.](#)
M. Muthtamilselvan, Manab Kumar Das and P. Kandaswamy .
Transport in Porous Media, 82, 337-346 (2010).
2. [Heat transfer enhancement of copper-water nanofluids in a lid- driven cavity,](#)
M. Muthtamilselvan, P. Kandaswamy and J. Lee,
Comm. In Nonlinear science & Numerical Simulation, 15, 1501-1510 (2010).
1. [Prandtl number effects on mixed convection in a lid-driven porous cavity,](#)
P. Kandaswamy, M. Muthtamilselvan and J. Lee,
Journal of Porous Media, 11, 791-801 (2008)

National Publications - Reverse Chronological Order

Patent Info

Conference Info

Books & Chapters Related Info

Database Related Info

Alumini Reflections: