

Dr. Swati Mukhopadhyay, *BOYSCAST* Fellow

Professor (Mathematics)

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Academic Career

- ❖ B.Sc. (Honours in Mathematics), M.U.C. Women's College, The University of Burdwan, India
- ❖ M.Sc. (Applied Mathematics), The University of Burdwan, India
Specialization: Fluid Mechanics
- ❖ Ph.D. in Science (Mathematics) (Fluid Mechanics), The University of Burdwan in 2007
- ❖ Post Doc in NTNU, Norway in 2008

Teaching Experience: 12 Years 7 Months

- ❖ Assistant Professor (Mathematics), M.U.C. Women's College, Burdwan
- ❖ Assistant Professor, Department of Mathematics, The University of Burdwan
- ❖ Associate Professor, Department of Mathematics, S.K.B. University, Purulia
- ❖ Associate Professor, Department of Mathematics, The University of Burdwan
- ❖ Professor, Department of Mathematics, The University of Burdwan

Award/Fellowship/ Recognition:

- ❖ *BOYSCAST* Fellowship (Govt. of India) in 2008
- ❖ CSIR JRF (2002-04) & SRF (2005)
- ❖ Gold Medal (1st class first in M.Sc., Applied Group)
- ❖ National Scholarship (1990) & Jr. National Scholarship (1987)
- ❖ E-content writer (Classical Mechanics), UGC e-Pathshala Project
- ❖ Biographical profile selected & included by Marquis Who's Who in the World (2010 Edition)
- ❖ Selected by PSC, W.B. (Lecturer, Haldia Govt. College in 2006)
- ❖ Selected by SSC, W.B. (2005)

Publications: A. Journal

Total: 123

International journals	119	<i>h</i> -index	29 (SCOPUS)
National/indexed journals	03		36(Google Scholar)
Editorial	01	<i>i</i> 10-index	56(Google Scholar)
		<i>Total citations</i>	2298(SCOPUS)
			3252(Google Scholar)

B. Book/Monograph:

Fluid Flow, Heat and Mass Transfer at Bodies of Different Shapes: Numerical Solutions by K. Vajravelu and S. Mukhopadhyay , (ISBN 978-0-12-803733-1), *Elsevier, Academic Press, Oxford*

Research Project:

- ❖ **Major Research Project** Funding Agency: CSIR [File No. 25(4736)/14]
- ❖ **Young Scientist Project** Funding Agency: SERB, DST [File No. [YSS/2014/000681](#)]
- ❖ **Collaborative Research Project** Funding Agency: Norwegian University of Science and Technology, Norway
- ❖ **Minor Research Project** Funding Agency: UGC, Eastern Regional Office (File No.F.PSW-104/06-07)

Research Guidance:

- ❖ Ph.D. Awarded: 01
- ❖ Thesis Submitted: 02
- ❖ Registered for Ph.D.: 03

Selected list of publications:

1. I. C. Mandal and S. Mukhopadhyay, “Nonlinear convection in Micropolar fluid flow past an exponentially stretching sheet in an exponentially moving stream with thermal radiation”, *Mechanics of Advanced Materials and Structures* (Taylor and Francis) (SCI Ex.)(2018), DOI: [10.1080/15376494.2018.1472325](https://doi.org/10.1080/15376494.2018.1472325), Print ISSN: 1537-6494 Online ISSN: 1537-6532, Impact Factor: 2.645.
2. S. Haldar, S. Mukhopadhyay and G.C. Layek, “Flow and heat transfer of Casson fluid over an exponentially shrinking permeable sheet in presence of exponentially moving free stream with convective boundary condition”, *Mechanics of Advanced Materials and Structures* (Taylor and Francis) (SCI Ex.)(2018)(published online), DOI: 10.1080/15376494.2018.1444219, Print ISSN: 1537-6494 Online ISSN: 1537-6532, Impact Factor: 2.645.
3. S Mukhopadhyay, MS Mandal, S Mukhopadhyay, “Effects of variable viscosity on pulsatile flow of blood in a tapered stenotic flexible artery”, *Mathematical Methods in Applied Sciences* (Wiley) (SCI Ex.) (2018); <https://doi.org/10.1002/mma.5355>, Online ISSN:1099-1476, Impact Factor: 1.18.
4. S. Mukhopadhyay, M. S. Mandal and S. Mukhopadhyay, “Dynamic response of pulsatile flow of blood in a stenosed tapered artery”, *Mathematical Methods in Applied Sciences* (Wiley) (SCI Ex.) (2018); 1–15, DOI: 10.1002/mma.4874, Online ISSN:1099-1476, Impact Factor: 1.18.

5. S Mukhopadhyay, MS Mandal, **S Mukhopadhyay**, “Numerical simulation of physiologically relevant pulsatile flow of blood with shear-rate-dependent viscosity in a stenosed blood vessel“, *Int. J. of Biomathematics* (**World Scientific**) (**SCI Ex.**), 11 (06), 1850082 (**2018**), <https://doi.org/10.1142/S1793524518500821>, ISSN (print): 1793-5245 | ISSN (online): 1793-7159, Impact Factor: **1.050**.
6. S. Ghosh, **S. Mukhopadhyay** and K. Vajravelu, “Existence of dual solutions and melting phenomenon in unsteady nanofluid flow and heat transfer over a stretching surface”, *J. of Mechanics* (in press) (**Cambridge Core**) (**SCI Ex.**) (**2018**), ISSN: 1727-7191 (Print), 1811-8216 (Online), Impact Factor: **1.046**.
7. S. Ghosh and **S. Mukhopadhyay**, “Effects of slip on Cu-water or Fe₃O₄-water nanofluid flow over an exponentially stretched sheet", accepted in *Pramana* (**Springer**) (**SCI**) (**2018**), ISSN: 0304-4289 (Print) 0973-7111 (Online), Impact Factor: **0.699**.
8. **S. Mukhopadhyay** and H.I. Andersson, “Shear flow of a Newtonian fluid over a quiescent generalized Newtonian fluid”, *Meccanica* (**Springer**) (**SCI**), **Vol.52 (4) (2017)**, p. 903-914, DOI 10.1007/s11012-016-0434-y, Impact factor: **2.211** (ISSN: 0025-6455(PV), 1572-9648(EV)).
9. S. Haldar, **S. Mukhopadhyay** and G. C. Layek, “Dual solutions of Casson fluid flows over a power-law stretching sheet”, *J. of Applied Mechanics and Technical Physics* (**Springer**), Vol. 58(4)(**2017**), Impact factor: **0.643** (ISSN: 0021-8944, **SCI Ex.**).
10. **S. Mukhopadhyay** and I.C. Mandal, “Analysis of heat transfer over a plate in porous medium with convective boundary condition” *J. of Applied Mechanics and Technical Physics* (**Springer**), **Vol.57 (5) (2016)**, p. 949-956, Impact factor: **0.643** (ISSN: 0021-8944, **SCI Ex.**).
11. H. I. Andersson and **S. Mukhopadhyay**, “The boundary layers due to shear flow over a still fluid: a direct integration approach” *Applied Mathematics and Computation* (Elsevier), **Vol. 242(2014)**, p.856-862, (ISSN: 0096-3003; **SCI Ex.**), Impact factor: **2.3**.
12. **S. Mukhopadhyay**, I. C. Mandal and T. Hayat, “MHD boundary layer flow of Casson fluid passing through an exponentially stretching permeable surface with thermal radiation” *Chinese Physics B* (IOP), **Vol. 23, No. 10**, 104701 (**2014**), (ISSN: 1674-1056; **SCI**), Impact factor: **1.321**.
13. **S. Mukhopadhyay**, “Effects of partial slip on chemically reactive solute distribution in MHD boundary layer stagnation point flow past a stretching permeable sheet" *International Journal of Chemical Reactor Engineering* (IJCRE)(**De Gruyter**)(**2014**) (published online) (ISSN:1542-6580; **SCI Ex.**), Impact Factor: **0.881**.
14. **S. Mukhopadhyay** and I. C. Mandal, “Boundary layer flow and heat transfer of a Casson fluid past a symmetric porous wedge with surface heat flux”, *Chinese Physics B* (IOP), **Vol.23, No.4 044702(2014)**, (ISSN: 1674-1056; **SCI**), Impact factor: **1.321**.

15. **S. Mukhopadhyay**, I. C. Mandal and T. Hayat, "Mixed convection slip flow with heat transfer and porous medium" *Journal of Porous Media* (**Begell House**), Vol. 17(11)(2014), p.1007- 1017, (ISSN: 1091-028x (print), 1934-0508 (online); **SCI**), Impact factor:**1.061**.
16. **S. Mukhopadhyay**, K. Bhattacharyya and G.C. Layek, "Mass transfer over an exponentially stretching porous sheet embedded in a stratified medium", *Chemical Engineering Communications* (**Taylor and Francis**) Vol.201, Issue 2, February 2014, p. 272-286, (ISSN: 0098-6445; **SCI**), Impact factor: **1.282**.
17. **S. Mukhopadhyay**, "Dual solutions in boundary layer flow of a moving fluid over a moving permeable surface in presence of prescribed surface temperature and thermal radiation", *Chinese Physics B* (**IOP**), Vol. 23, Issue 1, January 2014, Article number 014702, (ISSN: 1674-1056; **SCI**), Impact factor: **1.321**.
18. **S. Mukhopadhyay**, I. C. Mandal, K. Vajravelu and R. A. Van Gorder, "Influence of space-varying surface heat flux on the heat transfer due to a moving fluid over a moving surface", *ASME J. of Heat Transfer* (2013), Vol.135 (8), art. No. 084503, (American Society of Mechanical Engineers (**ASME**), ISSN 0022-1481; **SCI**), Impact factor: **1.602**.
19. **S. Mukhopadhyay**, M. Golam Arif, M. Wazed Ali Pk., "Effects of transpiration on unsteady MHD flow of an upper convected Maxwell (UCM) fluid past a stretching surface in presence of first order chemical reaction", *Chinese Physics B* (**IOP**), Vol. 22, Issue 12, December 2013, Article number 124701, (ISSN: 1674-1056; **SCI**), Impact factor: **1.321**.
20. K. Bhattacharyya, **S. Mukhopadhyay** and G.C. Layek, "Unsteady MHD boundary layer flow with diffusion and first order chemical reaction over a permeable stretching sheet with suction or blowing", *Chemical Engineering Communications* (**Taylor and Francis**), 200 (2013), p.1-19, DOI: 10.1080/00986445.2012.712577, (ISSN: 0098-6445; **SCI**), Impact factor: **1.282**.
21. **S. Mukhopadhyay**, "Effects of thermal radiation on Casson fluid flow and heat transfer over an unsteady stretching surface subjected to suction/blowing", *Chinese Physics B* (**IOP**), Vol.22, Issue 11, November 2013, Article number 114702, (ISSN: 1674-1056; **SCI**), Impact factor: **1.321**.
22. **S. Mukhopadhyay**, K. Bhattacharyya, T. Hayat, "Exact solutions for the flow of Casson fluid over a stretching surface with transpiration and heat transfer effects", *Chinese Physics B* (**IOP**), Vol.22, Issue 11, November 2013, Article number 114701, (ISSN: 1674-1056; **SCI**), Impact factor: **1.321** .
23. **S. Mukhopadhyay**, K. Vajravelu and R.A.V. Gorder, "Chemically reactive solute transfer in a moving fluid over a moving surface", *Acta Mechanica* (Springer) Vol.224, Issue 3 (2013), p.513-523, (ISSN: 0001-5970; **SCI**), Impact factor: **2.113**.
24. **S. Mukhopadhyay**, K. Vajravelu and R.A.V. Gorder, "Casson fluid flow and heat transfer at an exponentially stretching permeable surface", *J. of Appl. Mech.- Trans. ASME*, Vol.80(5), (July 2013), art. No. 054502 (9 pages)doi:10.1115/1.4023618, (ISSN: 0021-8936; **SCI**), Impact Factor: **2.127**.

25. **S. Mukhopadhyay**, “Casson fluid flow and heat transfer over a nonlinearly stretching surface”, *Chinese Physics B* (IOP), Vol. 22, No. 7, July 2013, Article number 074701, (ISSN: 1674-1056; **SCI**) Citations – 96 (Scopus), Impact factor: **1.321**.
26. **S. Mukhopadhyay**, “Effects of thermal radiation and variable fluid viscosity on stagnation point flow past a porous stretching sheet”, *Meccanica* (Springer), Vol.48 (2013), p.1717-1730, (ISSN: 0025-6455(PV), 1572-9648(EV); **SCI**), Impact factor: **2.211**.
27. **S. Mukhopadhyay** and K. Vajravelu, “Diffusion of chemically reactive species in Casson fluid flow over an unsteady permeable stretching surface” *Journal of Hydrodynamics* (Ser B) (Elsevier), **Vol. 25, Issue 4, September 2013**, p. 591-598, (ISSN: 1001-6058; **SCI Ex.**), Impact factor:0.582.
28. **S. Mukhopadhyay**, P. R. De and G.C. Layek, “Heat transfer characteristics for Maxwell fluid flow past an unsteady stretching permeable surface embedded in porous medium with thermal radiation”, *J. of Applied Mechanics and Technical Physics* (Springer), **54 (3) (2013)**, p.385-396, (ISSN:0021-8944, **SCI Ex.**), Impact factor: **0.643**.
29. **S. Mukhopadhyay**, M. Golam Arif, M. Wazed Ali Pk, “Effects of partial slip on chemically reactive solute transfer in boundary layer flow over an exponentially stretching sheet with suction/blowing” *J. of Applied Mechanics and Technical Physics* (Springer), **Vol.54, Issue 6 (2013)**, p. 928-936, (ISSN: 0021-8944, **SCI Ex.**), Impact factor: **0.643**.
30. **S. Mukhopadhyay** and G.C. Layek, “Effects of variable fluid viscosity on flow past a heated stretching sheet embedded in a porous medium in presence of heat source/sink”, *Meccanica* (Springer), **Vol.47, Issue 4, April 2012**, p.863-876, (ISSN: 0025-6455(PV), 1572-9648(EV); **SCI**) Citations – 9 (Scopus), Impact factor: **2.211**.
31. **S. Mukhopadhyay**, “Mixed convection boundary layer flow along a stretching cylinder in a porous medium” *J. of Petroleum Science and Engineering* (Elsevier), **Vol.96–97 (2012)**, p.73–78, (ISSN: 0920-4105; **SCI**) Citations – 1 (Scopus), Impact factor: **2.382**.
32. **S. Mukhopadhyay**, “Upper-convected Maxwell fluid flow over an unsteady stretching surface embedded in a porous medium subjected to suction/blowing”, *Z. Naturforsch.*, **Vol.67a (2012)**, p. 641 – 646 / DOI: 10.5560/ZNA.2012-0075, (ISSN: 0932-0784; **SCI**) Citations – 2 (Scopus), Impact factor: 0.94.
33. **S. Mukhopadhyay**, “Heat Transfer Analysis for Unsteady Flow of a Maxwell Fluid over a Stretching Surface in the Presence of a Heat Source/Sink”, *Chinese Physics Letters* (IOP), **Vol.29 (5) (2012)**, 054703, (ISSN: 0256-307X; **SCI**) Citations – 73 (Scopus), Impact factor: **0.847**.
34. **S. Mukhopadhyay** and K. Vajravelu, “Effects of transpiration and internal heat generation/absorption on the unsteady flow of a Maxwell fluid at a stretching surface”, *J. of Appl. Mech.- Trans. ASME*, July **2012, 79**, 044508-1-6, (American Society of Mechanical Engineers (ASME), ISSN: 0021-8936, **SCI**) Citations-6(Scopus), Impact factor: **2.127**.

35. **S. Mukhopadhyay**, R.S.R. Gorla “Effects of partial slip on boundary layer flow past a permeable exponential stretching sheet in presence of thermal radiation”, *Heat Mass Transfer* (Springer), **Vol.48 (2012)**, p.1773–1781, (ISSN: 0947-7411; **SCI**) Citations–48 (Scopus), Impact Factor: **1.494**.
36. **S. Mukhopadhyay** and A. Ishak, “Mixed convection flow along a stretching cylinder in a thermally stratified medium”, *J. of Applied Mathematics*, **Vol. 2012**, Article ID 491695, 8 pages, doi:10.1155/2012/491695 (2012), (Hindawi Publishing Corporation, ISSN: 1110-757X; **SCI Ex.**) Citations – 34 (Scopus), Impact Factor: 0.656.
37. M.S. Mondal, **S. Mukhopadhyay** and G.C. Layek, “Pulsatile flow of an incompressible, inhomogeneous fluid in a smoothly expanded vascular tube” *Int. J. of Engineering Science* (Elsevier), **Vol.57 (2012)**, p.1–10, (ISSN: 0020-7225, **SCI**), Impact factor: **7.023**.
38. **S. Mukhopadhyay**, K. Vajravelu and R.A.V. Gorder, “Flow and heat transfer in a moving fluid over a moving non-isothermal surface” *Int. J. of Heat and Mass Transfer* (Elsevier), **Vol.55 (2012)**, p.6632–6637, (ISSN: 0017-9310; **SCI**), Impact factor: **3.891**.
39. K. Bhattacharyya, **S. Mukhopadhyay** and G.C. Layek, “Reactive solute transfer in magnetohydrodynamic boundary layer stagnation-point flow over a stretching sheet with suction/blowing”, *Chemical Engineering Communications* (Taylor and Francis), **Vol. 199, Issue 3 (2012)**, p.368-383, (ISSN: 0098-6445; **SCI**) Citations – 10 (Scopus), Impact factor: **1.282**.
40. **S. Mukhopadhyay**, I. C. Mandal and R.S.R. Gorla, “Effects of thermal stratification on flow and heat transfer past a porous vertical stretching surface” *Heat Mass Transfer* (Springer), **Vol. 48 (2012)**, p.915–921, DOI 10.1007/s00231-011-0930-5 (ISSN: 0947-7411; **SCI**), Citations – 1(Scopus), Impact Factor: **1.494**.
41. K. Bhattacharyya, **S. Mukhopadhyay**, G.C. Layek and I. Pop, “Effects of thermal radiation on Micropolar fluid flow and heat transfer over a porous shrinking sheet”, *Int. J. of Heat and Mass Transfer* (Elsevier), **Vol. 55, Issues 11-12 (2012)**, p.2945-2952, (ISSN:0017-9310; **SCI**) Citations – 78 (Scopus), Impact factor: **3.891**.
42. **S. Mukhopadhyay**, P. R. De, K. Bhattacharyya and G.C. Layek, “Forced convective flow and heat transfer over a porous plate in a Darcy-Forchheimer porous medium in presence of radiation”, *Meccanica* (Springer), **Vol.47, Issue 1, January 2012**, p.153-161, (ISSN: 0025-6455(PV), 1572-9648(EV); **SCI**) Citations – 3 (Scopus), Impact factor: **2.211**.
43. K. Bhattacharyya, **S. Mukhopadhyay** and G.C. Layek, “Steady boundary layer slip flow and heat transfer over a flat porous plate embedded in a porous media”, *J. of Petroleum Science and Engineering* (Elsevier), **Vol.78 (2011)**, p.304-309, (ISSN: 0920-4105; **SCI**) Citations – 5 (Scopus), Impact factor: **2.382**.
44. K. Bhattacharyya, **S. Mukhopadhyay**, G. C. Layek, “Slip effects on an unsteady boundary layer stagnation-point flow and heat transfer towards a stretching sheet”, *Chinese Physics Letters* (IOP) , **Vol. 28 (9) (2011)**, 094702, (ISSN: 0256-307X; **SCI**) Citations –41 (Scopus), Impact factor: **0.847**.

45. K. Bhattacharyya, **S. Mukhopadhyay** and G.C. Layek, "MHD boundary layer slip flow and heat transfer over a flat plate", *Chinese Physics Letters* (IOP), **Vol. 28 (2) (2011)**, 024701, (ISSN: 0256-307X; **SCI**) Citations – 44 (Scopus), Impact factor: **0.847**.
46. **S. Mukhopadhyay**, K. Bhattacharyya and G.C. Layek, "Steady boundary layer flow and heat transfer over a porous moving plate in presence of thermal radiation", *Int. J. of Heat and Mass Transfer* (Elsevier), **Vol. 54 (13-14) (2011)**, p.2751-2757, (ISSN: 0017-9310; **SCI**) Citations – 37 (Scopus), Impact factor: **3.891**.
47. **S. Mukhopadhyay**, "Heat transfer in a moving fluid over a moving non-isothermal flat surface", *Chinese Physics Letters* (IOP), **Vol. 28 (12) (2011)**, 124706, (ISSN: 0256-307X; **SCI**) Citations – 2(Scopus), Impact factor: **0.847**.
48. **S. Mukhopadhyay**, "Heat transfer analysis for unsteady MHD flow past a non-isothermal stretching surface", *Nuclear Engineering and Design* (Elsevier), **Vol.241 (2011)**, p.4835-4839, (ISSN: 0029-5493; **SCI**) Citations-3(Scopus), Impact factor: **1.19**.
49. **S. Mukhopadhyay**, G.C. Layek, "Analysis of blood flow through a modelled artery with an aneurysm", *Applied Mathematics and Computation* (Elsevier), **Vol. 217(2011)**, p. 6792–6801, (ISSN: 0096-3003; **SCI Ex.**), Impact factor: **2.3**.
50. **S. Mukhopadhyay**, "Effects of slip on unsteady mixed convective flow and heat transfer past a porous stretching surface", *Nuclear Engineering and Design* (Elsevier), **Vol. 241 (2011)**, p.2660-2665, (ISSN: 0029-5493, **SCI**) Citations -15(Scopus), Impact factor: **1.19**.
51. K. Bhattacharyya, **S. Mukhopadhyay** and G.C. Layek, "Slip effects on boundary layer stagnation-point flow and heat transfer towards a shrinking sheet", *Int. J. of Heat and Mass Transfer* (Elsevier), **Vol. 54 (1-3) (2011)**, p. 308-313, (ISSN: 0017-9310; **SCI**) Citations – 161(Scopus), Impact factor: **3.891**.
52. **S. Mukhopadhyay**, "Effects of Slip on Unsteady Mixed Convective Flow and Heat Transfer Past a Stretching Surface", *Chinese Physics Letters* (IOP), **Vol.27 (12) (2010)**, 124401, (ISSN: 0256-307X; **SCI**) Citations – 14 (Scopus), Impact factor: **0.847**.
53. **S. Mukhopadhyay**, "Effect of thermal radiation on unsteady mixed convection flow and heat transfer over a porous stretching surface in porous medium", *Int. J. of Heat and Mass Transfer* (Elsevier), **Vol.52 (2009)**, p.3261-3265, (ISSN: 0017-9310; **SCI**) Citations– 118 (Scopus), Impact factor: **3.891**.
54. **S. Mukhopadhyay** and H.I. Andersson, "Effects of slip and heat transfer analysis of flow over an unsteady stretching surface", *Heat Mass Transfer* (Springer), **Vol.45 (2009)**, p.1447-1452, (ISSN: 0947-7411; **SCI**) Citations – 55 (Scopus), Impact factor: **1.494**.
55. **S. Mukhopadhyay**, "Unsteady boundary layer flow and heat transfer past a porous stretching sheet in presence of variable viscosity and thermal diffusivity", *Int. J. of Heat and Mass Transfer* (Elsevier), **Vol.52 (2009)**, p.5213-5217, (ISSN: 0017-9310; **SCI**) Citations – 11 (Scopus), Impact factor: **3.891**.

56. **S. Mukhopadhyay** and G.C. Layek, “Radiation effect on forced convective flow and heat transfer over a porous plate in a porous medium”, *Meccanica* (Springer), **Vol.44 (2009)**, p.587-597, (ISSN: 0025-6455(PV), 1572-9648(EV); **SCI**) Citations – 18 (Scopus), Impact factor: **2.211**.
57. G. C. Layek, **S. Mukhopadhyay** and R.S.R. Gorla, “Unsteady viscous flow with variable viscosity in a vascular tube with an overlapping constriction”, *Int. J. of Engineering Science* (Elsevier), **Vol.47 (2009)**, p.649-659, (ISSN: 0020-7225, **SCI**) Citations-6, Impact factor: **7.023**.
58. **S. Mukhopadhyay** and G. C. Layek, “Analysis of flow fields in a wavy-walled tube with tapering”, *Chinese Journal of Physics*, **Vol.47(4) (2009)**, p.479-493, (ISSN:0577-9073, **SCI**), Impact factor: **1.051**.
59. **S. Mukhopadhyay**, “Effects of radiation and variable fluid viscosity on flow and heat transfer along a symmetric wedge”, *J. of Applied Fluid Mechanics*, **Vol.2 (2) (2009)**, p.29-34, (ISSN: 1735-3645; **SCI Ex.**) Citations – 8 (Scopus), Impact factor: **1.09**.
60. **S. Mukhopadhyay**, “Natural convection flow on a sphere through porous medium in presence of heat source/sink near a stagnation point”, *J. of Mathematical Modelling and Analysis* (Taylor and Francis), **Vol.13 (4) (2008)**, p.513-520, (ISSN: 1392-6292; **SCI Ex.**), Impact factor: 0.538.
61. **S. Mukhopadhyay** and G. C. Layek, “Effects of thermal radiation and variable fluid viscosity on free convective flow and heat transfer past a porous stretching surface”, *Int. J. of Heat and Mass Transfer* (Elsevier), **Vol.51 (2008)**, p.2167-2178, (ISSN: 0017-9310; **SCI**) Citations – 65 (Scopus), Impact factor: **3.891**.
62. G. C. Layek, S. Mukhopadhyay and Sk. A. Samad, “Heat and mass transfer analysis for boundary layer stagnation-point flow through a porous medium towards a stretching sheet with internal heat generation /absorption and suction/blowing”, *Int. Communications Heat Mass Transfer* (Elsevier), **Vol.34 (2007)**, p.347-356, (ISSN: 0735-1933; **SCI Ex.**) Citations – 100 (Scopus), Impact factor: **4.463**.
63. G. C. Layek, **S. Mukhopadhyay** and Sk. A. Samad, “Scaling group of transformations for boundary layer stagnation-point flow through a porous medium towards a heated stretching sheet ”, *J. of Mathematical Modelling and Analysis* (Taylor and Francis), **Vol.11(2) (2006)**, p.187-197, (ISSN: 1392-6292, **SCI Ex.**) Citations-2 (Scopus), Impact factor: 0.538.
64. **S. Mukhopadhyay**, G. C. Layek and Sk. A. Samad, “Study of MHD boundary layer flow over a heated stretching sheet with variable viscosity”, *Int. J. of Heat and Mass Transfer* (Elsevier), **Vol.48 (2005)**, p. 4460-4466, (ISSN: 0017-9310; **SCI**) Citations-118(Scopus), Impact factor: **3.891**.

Editorial:

65. R. Gorla, S. Asghar, Md. A. Hossain, W. Khan and **S. Mukhopadhyay**, “Heat and Mass Transfer in Non-Newtonian Fluids” *Advances in Mechanical Engineering* (Hindawi Publishing Corporation) (2014) Volume 2014, Article ID 104392, 2 pages, (ISSN:1687-8132(Print); ISSN: 1687-8140 (Online); **SCI Ex.**), Impact factor: **0.848**.