CURRICULUM VITAE
Dr. K. Vinayaka Prasad

Official Address:

Professor, Department of Mathematics, Vijayanagara Sri Krishnadevaraya University, Vinayaka Nagar, Bellary- 583 104, Karnataka, India, Mobile No: +91-9448687862, Office Number-08392-242507.

Permanent Address:

Dr. K. V. Prasad s/o, K. Eswarappa, H.No.25/A, Sri Hari Sadana, II cross, Contonment Road, Jayanagar, Bellary- 583 104, Karnataka,India.

Personal: * Indian Citizen.

                        * Married to Surekha

Adhar Card number:**721182127097**

Date of Birth: 30-05-1974

Place of Birth: Kamalapura, Hospet (Tq), Ballari (Dis), Karnataka (State)

Father's Name: K.Eswarappa

Employment:

- 12/2020- to till date, working as a Professor and Chairman, Department of Mathematics, Vijayanagara Sri Krishnadevaraya University, Vinayaka Nagar, Bellary- 583 104, Karnataka, India.

- 10/2012- to till date, working as a Professor, Department of Mathematics, Vijayanagara Sri Krishnadevaraya University, Vinayaka Nagar, Bellary- 583 104, Karnataka, India.

- 10/2012- 10/2014, worked as a Professor and Chairman, Department of Mathematics, Vijayanagara Sri Krishnadevaraya University, Vinayaka Nagar, Bellary- 583 104, Karnataka, India.

- 03/2007- 10/2012, Asst. Professor, Department of Mathematics, Central College Campus , Bangalore University, Bangalore- 560 001.

- 08/2005- 03/2007, Assistant Professor, Department of Mathematics, PES School of Engineering, Bangalore-100. (1 Year 7 months) Subjects Taught: Engineering Mathematics-I-IV and M.C.A., and M.B.A.

- 08/2003-08/2005 Lecturer, Department of Mathematics, RNS Institute of Technology, Bangalore-61. (2 years): Subjects Taught: Engineering Mathematics-I-IV and M.C.A., and M.B.A.

- 08/2001-07/2003 Lecturer, Department of Mathematics, New Horizon College of Engineering, Bangalore. (2 years) : Subjects Taught: Engineering Mathematics-I-IV and M.C.A., and M.B.A

- 09/1999-12/2000 Lecturer, Department of MACS, KREC Suratkal, Mangalore, KARNATAKA, INDIA. (4 months).

Education:

- 1997-2000, Ph.D., Gulbarga University, Gulbarga, Karnataka, India, , thesis `` Boundary Layer Visco-Elastic fluid flow over moving surfaces in porous media advisor Prof. M. Subhas Abel.

- 1996-1997, M.Phil, Gulbarga University, Gulbarga, Karnataka, India, thesis " Oscillatory motion of a visco-elastic fluid over a continuous moving surfaces" advisor Prof. M. Subhas Abel.

- 1994-1996, M.Sc., Gulbarga University, Gulbarga, First class with Distinction (79.6%).

- 1991-1994, B.Sc, Vijayanagara College Hospet, Gulbarga University Gulbarga, First Class, 63.33%

Mathematical Interests:

* Ordinary/Partial Differential Equations, Continuous Moving surfaces, Newtonian/non-Newtonian fluids, Convective heat and mass transfer , porous media, MHD fluid flows

Awards and Fellowships:

- 1997-2000   University, Fellowship for perusing Research for Doctoral Degree course.

- 1996   **SMIORE GOLD MEDAL** for securing highest Marks in post graduate course (M.Sc.).

- 1996   IV Rank for securing highest marks in Gulbarga University, Gulbarga.

- The Department of Science and Technology has awarded one of the prestigious **fellowship namely, BOYSCAST** (Better Opportunities for Young Scientists in the Chosen Areas of Science and Technology) for the academic year 2009-2010.

- Travel grant is funded for **NANUM 2014 by KIAS** for presenting research article in ICM 2014 to SEOUL South Korea (I am the one selected among 1000 mathematicians around the world).

About the BOYSCAST Fellowship: The Age limit for the fellowship is 35 years for GM students. As a part of this fellowship program, I have to carry out my advanced research work in the area of "Analytical/ Numerical solution of non-linear equations like the inhomogeneous Falkner-Skan equation arising in stretching sheet problems "for a duration of 12 months at the University of Central Florida, Orlando, USA with Dr. K.Vajravelu, Professor, Department of Mathematics Orlando, USA.

- **VGST- Award of best scientific research publication for the year 2013-14 and a citation, sponsored by Govt. of Karnataka, India (No.VGST-p- 8/ARP/2013-14, dated 31-01 2013**). The VGST sub-committee has selected one of my research paper has the best research publications for the award under the scheme VGST-AWARD of best research publications for the year 2013-14.
- **CV Raman Young Scientist state award for the year 2014 instituted by Govt. of karnataka. This award is in recognition of outstanding contribution in the field of physical sciences.**
- VGST- Award of Research Fund for Talented Teachers for the year 2015-16 and a citation, sponsored by Govt. of Karnataka, India.
- Visited University of HONG KONG to do collaborative research work with Prof.C.O.Ng, department of Mechanical Engineering, University of HONG KONG from 9th May 2016 to 18th May 2016.
- The editors of *Journal of Hydrodynamics, Ser.B* are delighted to inform you that your paper, The effect of variable viscosity on the flow and heat transfer of a viscous Agwater and Cuwater nanofluids, published in 2013 is one of the most highly cited papers during 2014, 2015 and up until June 2016. The authorities would like to take this opportunity to thank you for publishing with us and to congratulate you. We have designed a certificate that acknowledges your achievement. <View your certificate here>. Wherever relevant, we will promote your achievement on our social media pages.

Memberships:

Life Membership of **INDIAN SOCIETY OF MATHEMATICS AND MATHEMATICAL SCIENCES (ISMAMS)**

Life member ship of **INDIAN MATHEMATICAL SOCIETY** with the receipt number: 2328 dated on 01/02/2016.

ORIENTATION PROGRAMME: Attended a UGC sponsored Orientation Programme from 21st Jan 2008 to 18th Feb. 2008 Held at Academic Staff College , Bangalore University, Bangalore.

Refresher Course: Attended series of lectures in the seminar entitled" Approximation theory and Applications" from Jan 11th 2011 to 1st March 2011 held at Department of Mathematics, University of Central Florida, USA .

Text Books:

1. **K.Vajravelu and K.V.Prasad**, Keller-Box method and its applications, De-GRUYTER publishers, Higher Education Press, , Boston, Printed in Germany, 2014.
2. **K.V.Prasad**, Course material to Karnataka State Open university, Mysore, namely, to the P.G. students Fluid Mechanics, 2014.

Visiting Programme (since 1997):

- Visited I I Sc- TIFR Short term visitors program from 11-02-1999 to 04-03-1999 under the guidance of Prof.P S Datti.

- Visited I I Sc- TIFR Short term visitors program from 04-06-2001 to 30-06-2001 under the guidance of Prof.P S Datti.

- Visited University of HONG KONG to do collaborative research work with Prof.C.O.Ng, department of Mechanical Engineering, University of HONG KONG from 9th May 2016 to 18th May 2016.

Academic /Administrative activities

- Working as a Professor in the department of Mathematics , VSK University Ballari from 20-10-2012 to till date.
- Worked as a special officer, VC section VSKU Bellary from 16-11-2018 to 15-06-2019.
- Worked as a Registrar VSK University, Vinayaka Nagar Ballari from 28th July 2018 to 22nd Sept. 2018.
- Worked as a Professor and Chairman , Department of Mathematics, VSK University, Bellary from Nov. 2016 to 26-12-2018.
- Worked as a Professor and Dean, Faculty of Pure science, VSK University, Bellary from 13th Nov.2016 to 12th Nov 2018.
- Worked as a Professor and Chairman , Department of Mathematics, VSK University, Bellary from Dec. 2020 to Dec.2022.
- Worked as a special officer , VC section VSKU Bellary from July 2017 to 28th July 2018
- Worked as a syndicate member VSK University since from Nov.2017 to 12th Nov.2018.
- Worked as a Professor and Chairman , Department of Mathematics, VSK University, Bellary from Oct. 2012 to . Nov.2014.
- Worked as Co-ordinator , Department of Computer Science, VSK University, Bellary from Oct. 2012 to Nov. 2014.

- Worked as an Academic Council Member, VSK university, Bellary for a period of two years from Jan 2013 to Jan 2015.
- Worked as a Finance Committee Member , VSK university, Bellary for a period of two years from Jan 2013 to Jan 2015.
- Worked as a BOS Chairman (UG and PG), Department of Mathematics and Computer Science, VSK university, Bellary since from Oct. 2012 to April 2016.
- Worked as a Nodal officer, VSK University for conducting K-SLET examination consecutively for three terms(FY:- 2013, 2014 and 2015).
- Appointed as ICT co-ordinator, VSK university, Bellary for implementing ICT initiatives as when instructed by the KSHEC, Bangalore from March 2015 to March 2017.
- **Deputed as a special officer for recruitment section for VSK university Bellary from June 2016 to June 2017.**
- **Appointed as a member in Text book review committee by the Govt. of Karnataka, under the leadership of Prof. B.Ramachandrappa.**
- Worked as a **convener in organizing** a Int. conference on Emerging trends in Mathematical Sciences from 25th July 2014 to 26th July 2014, held at VSK university, Bellary.
- Worked as a **convener in organizing** a Int. conference on "**28th International Conference of International Academy of Physical Sciences (CONIAPS-XXVIII)" during December 21-23, 2022. The conference theme is "Innovations in Computational & Physical Sciences for Sustainable Development" held at VSK university, Bellary**
- **Working as an Academic Council Member, VSK university, Bellary for a period of two years from May 2016 to May 2018.**
- Worked **as a convener in organizing a** Post Graduate Mathematical Science Special Lecture series programme on 16and 17th Oct. 2014, held at VSK university, Bellary.
- Appointed and acted as resource person in examining evaluation of several thesis of different universities, namely, Gulbarga university, Gulbarga, Shimoga University, Shimoga, Karnataka university, Dharwad, Vellur institute of Technology, Vellur, Tamil nadu, MGR University, Chennai and etc.
- Appointed and selected as a resource person in the refresher course programme held at Academic staff college Bangalore for two consecutive terms.
- Appointed and acted as a BOE member for Department of Mathematics, Central College campus, Bangalore University, Bangalore, Department of mathematics, Karnataka University, Dharwad, Department of Mathematics, Kuvempu University, Shimoga, Department of Mathematics, KSOU, Mysore, Department of mathematics, Davanege University, Davanegere, Department of Mathematics, Tumkur university, Tumkur, Department of Mathematics, SV University, Tirupathi.

Papers reviewed for Journals:

Heat Mass Transfer, Chemical Engineering Communications, International journal of Thermophysics, Journal of Porous Media Communications in non-Linear science and Numerical simulations, Applied Mathematics in Engineering, Applied Mathematics, Journal of porous media.

Details of the thesis evaluated (Ph.D.)

S.No	Name of the Student	Name of the University	Title of the Thesis
01	Mr. K.S.Onkarappa	Kuvempu University	Analytical solutions to quantity the physiological parameters of the some problems in reference to the health Hazards
02	Ms. Sapna	Gulbarga University, Gulbarga	Combined free and forced convection of a two fluid flow in vertical wavy channel
03	Mr. Shivakumar Madhava Rao	Gulbarga University, Gulbarga	Effect of heterogeneous reactions on the dispersion of a solute with and without chemical reactions
04	Ms.G.K.Savitra mma	Gulbarga University, Gulbarga	Theoretical analysis of porous and poro–elastic bearings lubricated with non-Newtonian fluids.
05	Sri Monayya Mareppa	Gulbarga University, Gulbarga	Flow Heat and Mass Transfer characteristics in a boundary layer nanofluid over a stretching sheet
06	Sri. N.G. RudraSwamy	Kuvempu University Shimoga	A study on Flow and Heat transfer of a nanofluid
07	Veena M Basavana Gouda	Gulbarga University Gulbarga	Computational analysis of MHD flow , heat and mass transfer in the boundary layer over an exponentially permeable/ impermeable stretching surface
08	Sri. N.G.Sridhar	Gulbarga university Gulbarga	Study of peristaltic transport/ flow with couple stress fluid.
09	Sri.M.Karuna Prasad	Gulbarga University Gulbarga	Effect of Baffelts to control flow and heat transfer in cavities

Details of the Ph.D. Students (awarded)

S.No	Name of the Student	Name of the University	Title of the Thesis
01	N.S.Prasanna Rao	MGR University Chennai 2012	Theoretical study of boundary layer flow problems in Newtonian and non-Newtonian fluids
02	Ms. S.R.Santhi	Bangalore University, Bangalore- 2014	Numerical/Analytical solutions of stretching sheet problems with super linear stretching in Newtonian and non-Newtonian liquids
03	Mr. Raju B.T.,	Bangalore University, Bangalore-2014	Numerical/Analytical solutions of governing generalized Cranes problems involving continuous moving surface
04	Hanumesh Vaidya	VSK University Ballari	Theoretical analysis of fluid flow in different shapes:

		2018	Numerical/Analytical approach
05	M Prasad	VSK University Ballari 2018	Contribution to the theory of continued fraction and modular equation
06	Mrs. Neelufer	VSK University Ballari 2018	Numerical/Semi-Numerical methods for the solution of boundary value problems arising in technological industry
07	Mr.Srikanth Shetty	VSK University 2019	A theoretical analysis of nanofluid flow and heat transfer in different geometries: Analytical Aproach
08	Mr.Vishwanath U B	VSK University 2019	Some mixed BVPs arising in science and Technological industry: Numerical/Analytical approach
09	Mr.Ramanjini V	VSK University 2020	An analytical Approach to study the flow and heat transfer of a Newtonian/non-Newtonian fluids over a slender Elastic sheet
10	Mr.Hussain Bhasha	VSK University 2020	Analytical Study of Flow and Heat Transfer in Non-Newtonian Fluids
11	Mr.Mahendra D L	VSK University 2022	Numerical/Analytical simulation of fluid flow and heat transfer through different geometries

Details of the Ph.D. Students (perusing)

S.No	Name of the Student	Name of the University	Title of the Thesis
01	Mrs. Sarawathi	VSK University, Bellary	Joined in Nov.2018
02	Mr.Rathod Kumar	VSK University, Bellary	Joined in Jan 2021
03	Mr.Shivaraya	VSK University, Bellary	Joined in Jan 2021
04	Mr.Kumara Swamy	VSK University, Bellary	Joined in Jan 2021
05	Mrs. Shobha	VSK University, Bellary	Joined in Jan 2021
06	Mrs.Rashmi	VSK University, Bellary	Joined in Jan 2023
07	Mr.Hanumantha	VSK University, Bellary	Joined in Jan 2021

International/National Conferences Attended /Participated/paper presented (Since 1996)

Organized an International conference on Emerging Trends in Mathematical Sciences in Department of Mathematics, VSK University Bellary from 25-26th July 2014.

Organized a Two days Special Lecture Series Porgramme in Department of Mathematics, VSK University, Bellary on 16 and 17th Oct. 2014 to the Post graduate students, Jointly organized by the KSTA, Bangalore and VSK University Bellary, Karnataka, India.

Organized a three days an Int. conference on "28th International Conference of International Academy of Physical Sciences (CONIAPS-XXVIII)" during December 21-23, 2022. The conference theme is "Innovations in Computational & Physical Sciences for Sustainable Development" held at VSK university, Bellary

National /International Conference/workshop attended

1. Attended a symposium on Applied Mathematics in Engineering Technologies at BNM Institute of Technology, Bangalore on 16th Dec.2006.
2. Attended a International Symposium on Cognition and Recognition Technologies held on Dec.29-30, 2006 at PES School of Engineering , Bangalore.
3. Attended two day National seminar on Discrete structures and computer applications at PES Institute of Technology, Bangalore from Jan 18-19, 2007.
4. Attended a UGC Sponsored work shop on Recent Developments in Mathematics, Department of Mathematics, Govt. Science College, Nrupathunga Road, Bangalore, held on March 30th 2007.
5. Attended one day state level seminar on Excitement in Mathematics at P.E.S.College of Science. Arts and Commerce, Mandya, on 11th April 2009.
6. Participated in the symposium on Mathematics, organized by Central College Mathematical Society , Department of Mathematics, Bangalore University, Bangalore on May 18th 2009.
7. Participated in the workshop on Transformation theory of ordinary and basic hypergeometric function at Gorakhpur from 14-19th Feb.2009.

Paper presentation/ Invited Talk in National Conference

1. Presented a research article" Heat Transfer with variable thermal conductivity in MHD visco-elastic fluid flow over a stretching surface" in National Seminar on " Recent Advances in Fluid Mechanics, held during Sept 11 &12 , 2002, at Gulbarga University, Gulbarga.
2. Presented a research article" Convective Heat transfer in the flow of visco-elastic fluid in a porous medium past a stretching sheet " in National Conference on Applied Mathematics held during Feb.7th –8th 2006, In the Department of Mathematics, Gulbarga University, Gulbarga.
3. Presented a research paper in National Conference on Mathematical Method and Applications "Convective heat and mass Transfer in a visco-elastic fluid flow through a porous medium over a stretching sheet, held at Basaveshwara Engineering College, Bagalkot, 17 and 18th March, 2007.
4. **Presented an invited talk** on "Convection flow and heat transfer of a Maxwell fluid over a non-isothermal surface" at 6th National Conference organized by ISMAMS on Mathematical Sciences : A Foundation of Science and Technology at Gorakhpur, India from Feb.20-21 , 2009.
5. **Presented an invited talk** on "Mixed convection heat transfer over a non-linear stretching surface with variable fluid properties" at National Symposium sponsored by UGC New Delhi under Special Assistance Programme, DRS-II at Gulbarga University, Gulbarga , India from Feb.8-9 , 2010.

6. Presented a research paper in National seminar on Recent Trends in Mathematical Sciences entitled "A note on dusty fluid flows with variable thermo-physical properties ", held at Sri Krishnadevaraya University, Anantapur from 17-18th Dec.2011.

7. **Presented an invited talk** on " hydromagnetic flow and heat transfer at a stretching sheet with fluid particle suspension and variable fluid properties" at National Conference on Frontiers in Applied Mathematics, Department of Mathematics, MES College of Arts, Commerce and Science Malleswaram, Bangalore from 9-10th March.2012.

8. **Presented a research paper "**Diffusion of chemically reactive species in a power law fluid over a stretching sheet" at UGC sponsored National Conference on The importance of Discrete Mathematics in Mathematics and Computer Science held at Maharani's Science College for Women, Bangalore from 13th-14th March 2012.

9. **Presented an invited Talk** in the National Conference on analysis and applications of Mathematics , Held at department of Mathematics and basic science , Reva Institute of Technology and Management from 22-23, 2013.

10. **Presented a research paper " Thin fim flow** flow and heat transfer in a thin film of Ostwald-de Waele liquid over a stretching surface" at UGC sponsored National Conference on Recent advances in Applied Mathematics at Gulbarga University, Gulbarga from 11th-12th March 2014.

11. **Presented a research paper " Thin fim flow** flow and heat transfer in a thin film of Ostwald-de Waele liquid over a stretching surface" at UGC sponsored National Conference on Recent advances in Applied Mathematics at Gulbarga University, Gulbarga from 11th-12th March 2014.

12. **Presented a research paper "** Hydromagnetic fluid flow and heat transfer at a stretching sheet with fluid-particle suspension and variable fluid properties" at National Conference on Advances in geometry, Analysis and Fluid mechanics at Kuvempu University, Shimoga from 26th -27th August 2014.

13. Presented an invited talk on the topic entitled" Flow and heat transfer over a slender stretching sheet arising in Technological industry during national conference on Recent advances in physical and mathematical sciences organized by the department of physics and Mathematis under IQAC held on 26and 27th March 2018 at govt. First Grade college Afzalpur Karnataka India.

14. Presented an invited talk on the topic entitled" MHD flow and heat transfer in Nanofluid over a slender elastic sheet with variable thickness " during UGC sponsored National Conference on Analysis and its application under UGC-SAP DRS-III programme by the department of Mathematis Karnataka University Dharwad from 9-10th March 2018.

15. Presented an invited talk on the topic entitled" coupled nn-linear boundary value problems arising in Technological industry" during International conference on Differential Geometry, Analysis and Fluid Mechanics by the department of Mathematics Kuvempu University Shimoga 4-5 th Feb. 2016.

16. Presented an invited talk on the topic entitled" Numerical approach to tackle non-linear coupled boundary value problems" during UGC sponsored National Conference on Geometry, Topology and their applications sponsored by NBHM Department of Atomic energy Govt. of India by the department of Mathematis Karnataka University Dharwad from 3-4th April 2016.
17. Presented an invited talk on the topic entitled" Numerical approach to tackle non-linear coupled boundary value problems" during UGC sponsored National Conference on Geometry, Topology and their applications sponsored by NBHM Department of Atomic energy Govt. of India by the department of Mathematis Karnataka University Dharwad from 3-4th April 2016.
18. Presented an invited talk on the topic entitled" Solving the Differential equations arising in technological industry by finite difference method " during one day National Conference on Recent trends on applications of science and engineering held on 28th Sept. 2018 at Bapuji Institute of Technology Davanegere, Karnataka India.
19. Presented an invited talk on the topic entitled" Optimal Homotopy Analysis method for the solution of boundary value problems arising in Technological industry" during UGC sponsored National Conference on Analysis and its applications under UGC-SAP-DRS-III Programme organized by the department of Mathematics Karnataka University Dharwad from 1-2 March 2019.
20. Presented an invited talk on the topic entitled" Semi-Analytical method / method for the solution of coupled differential equations arising in Manufacturing industry" during National Conference on Mathematics and its applications held on March 28-29, 2019, at the department of Mathematics Sri Venkateshwara University Tirupathi, Andra Pradeh India.
21. Presented an invited talk in National Symposium on Mathematics and its applications held on 27th April 2109 organized by the department of mathematics Bangalore University Bangalore. .

Paper presentation/ Invited Talk in International Conference
1. Presented a research article entitled "Momentum and heat transfer in Visco-elastic fluid flow in a porous medium over a non-isothermal stretching sheet" in the Golden Jubilee International conference held during Dec 31st   1999 to Jan 3rd 2000, at Lucknow University, Lucknow.
2. **Presented an invited Talk** in the 19th International Conference of the Jangjeon Mathematical Society & "The effect of variable fluid properties on the flow and heat transfer over a non-isothermal stretching sheet" held at Department of Mathematics, Bangalore University, Bangalore from 22-24th Feb.2007.
3. Presented paper in International Conference on Modeling and Simulation   " Heat transfer in a non-Newtonian power law fluid over a non-isothermal stretching sheet" held at Coimbatore Institute of Technology, Coimbatore, India 27-29th Aug.2007.

4. Presented paper in International Conference & Exhibition on Total Engineering, Analysis& Manufacturing Technologies " Non-Darcy forced convective heat transfer in a visco-elastic fluid over a stretching sheet" held at J.N.Tata Auditorium, IISc Bangalore from 4-6 Oct.2007.

5. Presented a paper in First International Conference on Emerging Trends in Engineering & Technology " MHD flow and heat transfer in the flow of a power law fluid" held at G H Raisoni College of Engineering , Nagpur, M.S., India from 16-18th July, 2008.

6. **Presented an invited Talk** in the 22nd International Conference of the Jangjeon Mathematical Society & "Mixed convection flow and heat transfer of a power law fluid over a vertical stretching sheet" held at Adichunchanagiri Institute of Technolgy, Chikmagalur from Aug.13-15, 2009.

7. Presented a paper in International Conference on frontiers in Fluid Mechanics "The effect of variable viscosity on MHD visco-elastic fluid flow and heat transfer over a stretching sheet" held at Department of Mathematics, Bangalore University, Bangalore from 31st Aug. to 2nd Sept. 2009.

8. Presented a Research paper in 6th International conference on Dynamical Systems and Its Applications entitled" Convective heat transfer in the flow of viscous Ag-water and Cu-water nanofluids over a stretching surface" held at Department of mathematics, Morehouse college, Atlanta, Georgia, USA from May25-28th 2011.

9. **Presented an invited Talk** in the 26th International Conference of Jangjeon Mathematical Society , south Korea held at Acharya Institute of graduate studies Bangalore from Aug. 01-04, 2013.

10. **Presented an invited Talk** in the 3rd International Conference on Frontiers of Mathematics and Applications Organised by Department of Mathematics , The university of Burdwan West Bengal from Jan.29-31, 2014.

11. **Presented an invited Talk and served as a resource person in the GVPP college** hagaribommanahalli ,Bellary Karnataka on 17-02-2014 and delivered an invited talk on Some non-linear problems arising in Technological industry ..

12. **Presented an invited Talk and served as a resource person in the Satyabhama University, Chennai from 17-19th July 2014** and delivered an invited talk on heat and mass transfer of a non-Newtonian fluid flow over a vertical stretching sheet..

13. **Presented a research paper entitled** Unsteady flow and heat transfer in a thin film of Ostwald-de Waele liquid over a stretching surface **in ICM 2014 held at SEOUL , south Korea from 13-21 Aug. 2014.**

14. Presented an invited Talk and served as a resource person in the Kuvempu University Shimoga from 4-5 Feb. 2016 and delivered an invited talk on flow problems arising in Technological Industry.

15. Presented an research paper in the International conference on Recent Advances in Applied Science organized by School of Applied Sciences REVA University Bengaluru on 17-18th Oct.2019.

16. Presented an invited Talk and served as a resource person in 2nd international conference on Global Advancement of Mathematics held on 25th and 26th June 2019 at Acharya Institute of Graduate Studies Bangalore.

17. Delivered an invited talk in International Conference on Recent Advances in Fluid Mechanics (ICRAFM-2022) October 04-06, 2022, at MAHE, Mangalore

International/conference proceedings

1. **K.V.Prasad and K.Vajravelu,** heat and Mass transfer of a non-Newtonian fluid over a vertical stretching sheet, Proceedings of the Int. Conf. on Mathematical Sciences, 385-390, 2014,

2. **V. Rajappa and K. V. Prasad,** MHD flow and heat transfer in the flow of a power law fluid over a non-iso thermal stretching sheet, First International Conference on Emerging Trends in Engineering & Technology 1077-1082, 2008.

3. **P. S. Datti , K.V. Prasad** : Numerical solution of some boundary layer problems using Kellor Box Method, in Proceedings of Int.Con. on Advances in Applied Mathematics, Held in Gulbarga University, Gulbarga, P.No.102-105, 2006.

4. **Subhas Abel, K.V. Prasad, Ali Mahaboob** : Convective heat transfer in the flow of viscoelastic fluid saturated in a porous medium over a non-isothermal stretching sheet, American Society of Mechanical Engineers, Fluids Engineering division (Publication) FED 259, 721-744,2003.

Sessions chaired for International / National conferences

1. Chaired the Session at 6th International conference on Dynamical Systems and Its Applications on Saturday from 9.40 A.M to 11.40 A.M. on Applied Mathematics V   at the Room No.148, Morehouse college, Atlanta, Georgia, USA May25-28th 2011..

2. Chaired the Session at Frontiers in Applied Mathematics on Saturday from 3.00 P.M. to 5 P.M. on Frontiers in Applied Mathematics at MES college of Arts, Commerce & Science, Malleshwaram Bangalore 9-10th March 2012.

3. Chaired a Session in Satyabhama University, Chennai from 17-19th July 2014 on International conference on Mathematical Sciences.

4. Chaired a Session in Kuvempu University, Shimoga from 26-27 Aug.2014 on Advanced in Geometry, Analysis and Fluid mechanics.

List of Publications of   Dr. K. V. Prasad

1. H Vaidya, **KV Prasad**, K Vajravelu, C Rajashekhar, JU Viharika, D Guinovart-Sanjuan, Bioconvective Peristaltic Transport of a Nano Eyring-Powell Fluid in a Vertical Asymmetric Channel with Gyrotactic Microorganism, Journal of Nanofluids, Vol. 12(1), 115-135, 2023.

2. Balachandra Hadimani, Rajashekhar Choudhari, Prathiksha Sanil, Hanumesh Vaidya, Manjunatha Gudekote, **Kerehalli Vinayaka Prasad**, Jyoti Shetty, The Influence of Variable Fluid Properties on Peristaltic Transport of Eyring Powell Fluid Flowing Through an Inclined Uniform Channel, Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, 102 (2), 166-185, 2023.

3.   C Rajashekhar, H Vaidya, G Manjunatha, Yakubu Aminu Dodo**, KV Prasad,** Hela Gnaba, Rohayah HJ Che Amat, M Ijaz Khan, Mathematical modeling and simulation of peristaltic activity in Ree-Eyring fluid flow through non-uniform complaint channel: Different varying conditions, Journal of the Indian Chemical Society, 100954, 2023.

4.   Y Shobha, **KV Prasad**, SG Anuradha, Hanumesh Vaidya, Auto Skin Tumour Classification Using CNN Framework with Tensorflow and Keras, Mathematical Statistician and Engineering Applications, Vol..72(1), 172-184, 2023

5.   Hanumesh Vaidya, Isaac Lare Animasaun, **Kerehalli Vinayaka** Prasad, Choudhari Rajashekhar, Javalkar U Viharika, Qasem M Al-Mdallal, Nonlinear dynamics of blood passing through an overlapped stenotic artery with copper nanoparticles, Journal of Non-Equilibrium Thermodynamics, 2022 .

6.   **Kerehalli V Prasad**, Srikantha B Setty, Fateh Mebarek-Oudina, Hanumesh Vaidya, Rajashekhar Choudhari, Isaac Lare Animasaun, Mixed convective Williamson nanofluid flow over a rotating disk with zero mass flux, ZAMM,2022

7.   Rajashekhar Choudhari, Dumitru Baleanu, Hanumesh Vaidya, **KV Prasad**, M Ijaz Khan, Omar T Bafakeeh, Mowffaq Oreijah, Kamel Guedri, Ahmed M Galal, Analysis of multiple slip effects on MHD blood peristaltic flow of Phan–Thien–Tanner nanofluid through an asymmetric channel, International Journal of Modern Physics B, 2350102, 2022.

8.   Hanumesh Vaidya, Rajashekhar Choudhari, Dumitru Baleanu, **KV Prasad**, Shivaleela, M Ijaz Khan, Kamel Guedri, Mohammed Jameel, Ahmed M Galal, On electro-osmosis in peristaltic blood flow of magnetohydrodynamics carreau material with slip and variable material characteristics, International Journal of Modern Physics B, 2350032, 2022.

9.   **Kerehalli Vinayaka Prasad**, Hanumesh Vaidya, Fateh Mebarek Oudina, Khalid Mustafa Ramadan, Muhammad Ijaz Khan, Rajashekhar Choudhari, Rathod Kirankumar Gulab, Iskander Tlili, Kamel Guedri, Ahmed M Galal, Peristaltic activity in blood flow of Casson nanoliquid with irreversibility aspects in vertical non-uniform channel, *Journal of the Indian Chemical Society,* Vol .99, 100617, 2022.

10.   Hanumesh Vaidya, **KV Prasad**, M Ijaz Khan, F Mebarek-Oudina, I Tlili, C Rajashekhar, Samia Elattar, Muhammad Imran Khan, Sami G Al-Gamdi, Combined effects of chemical reaction and variable thermal conductivity on MHD peristaltic flow of Phan-Thien-Tanner liquid through inclined channel, *Case Studies in Thermal Engineering,*Vol.36, 102214,2022

11.   P Nagathan, Asha Patil, SC Desai, C Rajashekhar, I Sarris, H Vaidya, **KV Prasad**, Electroosmotic Peristaltic Pumping of Jeffrey Liquid with Variable Characteristics: An Application to Hemodynamic, *International Journal of Applied and Computational Mathematics,* **8**, Article number: 151 (2022).

12.   Jawaher Alzahrani, Hanumesh Vaidya, **KV Prasad**, C Rajashekhar, DL Mahendra, Iskander Tlili, Micro-polar fluid flow over a unique form of vertical stretching sheet: Special emphasis to temperature-dependent properties, *Case Studies in Thermal Engineering,*Vol.34, 102037,,2022

13.   **KV Prasad**, Hanumesh Vaidya, Fateh Mebarek-Oudina, Rajashekhar Choudhari, Kottakkaran Sooppy Nisar, Wasim Jamshed, Impact of surface temperature and convective boundary conditions on a Nanofluid flow over a radially stretched Riga plate, *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*, Vol.236(3), 942-952, 2022.

14. Rajashekhar Choudhari, Fateh Mebarek-Oudina, Hakan F Öztop, Hanumesh Vaidya, **Kerehalli Vinayaka Prasad**, Electro-osmosis modulated peristaltic flow of non-Newtonian liquid via a microchannel and variable liquid properties, *Indian Journal of Physics,* 2022.

15. **KV Prasad**, C Rajashekhar, F Mebarek-Oudina, IL Animasaun, OD Makinde, K Vajravelu, Hanumesh Vaidya, DL Mahendra, Unsteady Magnetohydrodynamic Convective Flow of a Nanoliquid via a Radially Stretched Riga Area via Optimal Homotopy Analysis Method, *Journal of Nanofluids*, Vol.11(1), 84-98, 2022.

16. Rajashekhar Choudhari, Katta Ramesh, Dharmendra Tripathi, Hanumesh Vaidya, **Kerehalli Vinayaka Prasad**, Heat transfer and electroosmosis driven MHD peristaltic pumping in a microchannel with multiple slips and fluid properties, , *Heat Transfer*, 2022.

17. C. Rajashekhar **K. V. Prasad**, Hanumesh Vaidya* , Sangeeta Kalal, Peristaltic Flow of Rabinowitsch Fluid through an Inclined Non-uniform Channel, **J. Int. Acad. Phys. Sci.,** 26(3), 257-274, 2022.

18. Neelufer Z Basha, Kuppalapalle Vajravelu, Fateh Mebarek-Oudina, Ionis Sarris, Kanumesh Vaidya, **Kerehalli V Prasad**, Choudhari Rajashekhar, MHD Carreau nanoliquid flow over a nonlinear stretching surface, *Heat Transfer*, 2022,

19. Rajashekhar Choudhari,Katta Ramesh,Dharmendra Tripathi,Hanumesh Vaidya, **Kerehalli Vinayaka Prasad,** Heat transfer and electroosmosis driven MHD peristaltic pumping in a microchannel with multiple slips and fluid properties, *Heat Transfer* 2022

20. Vaidya, Hanumesh [1]; Rajashekhar, C. [2]; Mebarek-Oudina, F. [3]; **Prasad, K. V. [1]**; Vajravelu, K. [4]; Ramesh Bhat, B. [1]; Examination of Chemical Reaction on Three Dimensional Mixed Convective Magnetohydrodynamic Jeffrey Nanofluid Over a Stretching Sheet**, Journal of Nanofluids**, Vol.11(9), 113-124, 2022.

21. Rajashekhar Choudhari, Hanumesh Vaidya, **Kerehalli Vinayaka Prasad**, Rathod Kirankumar Gulab, Kamel Guedri, Aysha Rehman, Ahmed M Galal, Electroosmosis Augmented MHD Third-Grade Fluid with Slip and Variable Properties: An Application for Blood Flow in Arteries, **Journal of Computational Biophysics and Chemistry**, 2022.

22. H Balachandra, C Rajashekhar, F Mebarek-Oudina, G Manjunatha, H Vaidya, **KV Prasad**, Slip Effects on a Ree-Eyring Liquid Peristaltic Flow Towards an Inclined Channel and Variable Liquid Properties, Jounal of Nanofluids, Vol.10(2), 246-258, 2021.

23. R*ajashekhar choudhari, Hanumesh vaidya, Fateh Mebarek-Oudina, Abderrahim wakif , Manjunatha Gudekote, Kerehalli Vinayaka Prasad K.Vajravelu, Shivaraya Keriyapa,* electro-kinetically modulated peristaltic mechanism of jeffrey liquid through a micro-channel with variable viscosity, **Thermal Science**, Vol.25(2),PP.1-17, 2021.

24. C. Rajashekhar, F. Mebarek-Oudina, I. E. Sarris, H. Vaidya, **K. V. Prasad**, G. Manjunatha, H. Balachandra, Impact of Electroosmosis and Wall Properties in Modelling Peristaltic Mechanism of a Jeffrey Liquid through a Microchannel with Variable Fluid Properties ,**Inventions,** (2021) 6(4), 73

25. H. Vaidya, C. Rajashekhar, G. Manjunatha, A. Wakif, **K. V. Prasad,** I. L. Animasaun, K. Shivaraya, Analysis of entropy generation and biomechanical investigation of MHD Jeffery fluid through a vertical non-uniform channel, **Case Studies in Thermal Engineering**, (2021) 101518

26. K.V. Prasad, H. Vaidya, F. M. Oudina, R. Choudhari, K. S. Nisar, W. Jamshed, Impact of surface temperature and convective boundary conditions on a Nanofluid flow over a

radially stretched Riga plate, **Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering,** (2021) 09544089211054407.

27. H. Balachandra, C. Rajashekhar, H. Vaidya, F. M. Oudina, G. Manjunatha, **K. V. Prasad,** Homogeneous And Heterogeneous Reactions on The Peristalsis of Bingham Fluid with Variable Fluid Properties Through a Porous Channel, **Journal of Advanced Research in Fluid Mechanics and Thermal Sciences,** (2021) 88(3), 1-19

28. T. Z. Wei, S. U. Khan, H. Vaidya, C. Rajashekhar, S. T. Chuan, I. M. Khan, **K. V. Prasad,** C. Ronnason, A. A. Ayman,Nonlinear thermal radiation and activation energy significances in slip flow of bioconvection of Oldroyd-B nanofluid with Cattaneo-Christov theories, **Case Studies in Thermal Engineering,** (2021) Volume 26, August 2021, 101069

29. C. Rajashekhar, F. Mebarek-Oudina, H. Vaidya, **K.V. Prasad,** G. Manjunatha, H. Balachandra,Mass and heat transport impact on the peristaltic flow of a Ree–Eyring liquid through variable properties for hemodynic flow, **Heat transfer,** (2021) 50(5), 5106-5122

30. C. Rajashekhar, G. Manjunatha, F. Mebarek-Oudina, H. Vaidya, **K. V. Prasad,** K. Vajravelu, A. Wakif, Magnetohydrodynamic peristaltic flow of Bingham fluid in a channel: An application to blood flow, **Journal of Mechanical Engineering and Sciences,**(2021) 15(2), 8082-8094

31. H. Balachandra, C. Rajashekhar, F. Mebarek-Oudina, G. Manjunatha, H. Vaidya, **K. V. Prasad,** Slip Effects on a Ree-Eyring Liquid Peristaltic Flow Towards an Inclined Channel and Variable Liquid Properties, **Journal of Nanofluids,** (2021) 10(2), 246-258

32. B.B. Divya, G. Manjunatha, C. Rajashekhar, H. Vaidya, **K.V. Prasad**, Analysis of temperature dependent properties of a peristaltic MHD flow in a non-uniform channel: A Casson fluid model, **Ain Shams Engineering Journal**, (2021) 12(2), 2181-2191

33. H. Vaidya, R. Choudhari, F. M. Oudina, I. L. Animasaun, **K. V. Prasad**, O. D. Makinde,Combined effects of homogeneous and heterogeneous reactions on peristalsis of Ree-Eyring liquid: Application in hemodynamic flow, **Heat Transfer,** (2021) 50(3), 2592-2609

34. H. Vaidya, C. Rajashekhar, **K.V. Prasad,** S. U. Khan, Arshad Riaz, J.U. Viharika, MHD peristaltic flow of nanofluid in a vertical channel with multiple slip features: an application to chyme movement,**Biomechanics and Modeling in Mechanobiology,** (2021) 20(3), 1047-1067

35. H. Vaidya, C. Rajashekhar, **K.V. Prasad,** S. U. Khan, F. Mebarek-Oudina, A. Patil, P. Nagathan, Channel flow of MHD bingham fluid due to peristalsis with multiple chemical reactions: an application to blood flow through narrow arteries, **SN applied science,** (2021) 3(2), 1-12

36. S. Sreenadh Saravana Ramachandran , Kuppalapalle Vajravelu , **K. V. Prasad,** Peristaltic-ciliary flow of a casson fluid through an inclined tube, **COMMUN. BIOMATH. SCI.**(2021) 4(1), 23-38

37. S. R. Nayaka, **K. V. Prasad,** M. Prasad, Congruences for (2, 5)-regular bipartitions into distinct parts, **International Journal of Mathematics And its Applications,** (2021) 9(2), 17-25

38. **K.V. Prasad,** H. Vaidya, C. Rajashekhar, M. Gudekote, Heat transfer and slip consequences on peristaltic transport of a casson fluid in an axisymmetric porous tube, **Journal of Porous media,**(2021) 23(4), 77-94

39. H. Vaidya, **K.V. Prasad,** I. Tili, O.D. Makinde, C. Rajashekhar, S. U. Khan, Rakesh Kumar, D. L. Mahendra,Mixed convective nanofluid flow over a non linearly stretched Riga plate, **Case Studies in Thermal Engineering**(2021), 100828

40. B.B. Divya, G. Manjunatha, C. Rajashekhar, Hanumesh Vaidya, **Kerehalli Vinayaka Prasad**, Effects of Inclined Magnetic Field and Porous Medium on Peristaltic Flow of a Bingham Fluid with Heat Transfer, **Journal of Applied and Computational Mechanics,**(2021) 7(2)

41. H. Vaidya, O. D. Makinde, C. Rajashekhar, **K. V. Prasad**, Sami Ullah Khan, K. Vajravelu, Peristaltic flow of non-Newtonian fluid through an inclined complaint nonlinear tube: application to chyme transport in the gastrointestinal tract, **The European Physical Journal Plus**(2020),135(11), 1-15

42. C. Rajashekhar, H. Vaidya, **K. V. Prasad**, Iskander Tlili, A. Patil, P. Nagathan, Unsteady flow of Rabinowitsch fluid peristaltic transport in a non-uniform channel with temperature-dependent properties, **Alexandria Engineering Journal**,(2020)

43. H. Vaidya, C. Rajashekhar, B. B. Divya, G. Manjunatha, **K.V. Prasad**, I. L. Animasaun, Influence of transport properties on the peristaltic MHD Jeffrey fluid flow through a porous asymmetric tapered channel, **Results in Physics**(2020), 18, 103295

44. **K.V. Prasad**, Hanumesh Vaidya, C. Rajashekhar, Sami Ullah Khan, G. Manjunatha, J. U. Viharika, Slip flow of MHD Casson fluid in an inclined channel with variable transport properties, **Communications in Theoretical Physics**(2020),72(9), 095004

45. Sami Ullah Khan, Hanumesh Vaidya, Wathek Chammam, Sa'ed A Musmar, **K. V. Prasad**, Iskander Tlili, Triple diffusive unsteady flow of Eyring–Powell nanofluid over a periodically accelerated surface with variable thermal features, **Front. Phys.**(2020) 8: 246

46. Ali Shah Nehad, Isaac Lare Animasaun, Abderrahim Wakif, OK Koriko, R Sivaraj, KS Adegbie, Zahra Abdelmalek, Hanumesh Vaidya, AF Ijirimoye, **Kerehalli Vinayaka Prasad,** Significance of suction and dual stretching on the dynamics of various hybrid nanofluids: Comparative analysis between type I and type II models, **Physica Scripta**, July 2020.

47. Rajashekhar Choudhari, Manjunatha Gudekote, Hanumesh Vaidya, KV Prasad, Sami U Khan, Rheological effects on peristaltic transport of Bingham fluid through an elastic tube with variable fluid properties and porous walls, Heat Transfer(2020), 49(6), 3391-3408

48. B.B. Divya , G. Manjunatha C. Rajashekhar , Hanumesh Vaidya ,**K.V. Prasad**, The hemodynamics of variable liquid properties on the MHD peristaltic mechanism of Jeffrey fluid with heat and mass transfer**, Alexandria Engineering Journal** (2020) 59, 693–706.

49. Divya B Baliga,Manjunatha Gudekote,Rajashekhar Choudhari,Hanumesh Vaidya**, K V Prasad,** Effects of Inclined Magnetic Field and Porous Medium on Peristaltic Flow of a Bingham Fluid with Heat Transfer **,** Journal of Applied and Computational Mechanics, Vol.7(2), **10.22055/JACM.2019.31060.1822: SCOPUS , Web of Science, SCImago (SJR) Q2-Journal. Impact Factor: 1.31, 2021..**

50. G. Manjunatha, C. Rajashekhar, Hanumesh Vaidya, **K. V. Prasad**, O. D. Makinde, J. U. Viharika, Impact of variable transport properties and slip effects on MHD jeffrey fluid flow through channel, *Arabian Journal for Science and Engineering*, Vol.45(1),417-428, 2020, I F.: 1.518.

51. Hanumesh Vaidya, **KV Prasad**, Kuppalapalle Vajravelu, B Srikantha Setty, Oluwole Daniel Makinde, Influence of variable liquid properties on magnetohydrodynamic flow and heat transfer of a casson liquid over a slender rotating disk: numerical and optimal solution, **Computational Thermal Sciences: An International Journal,** Vol.20(1), **21-39, 2020,**

52. **Prasad, KV**; Vaidya, Hanumesh; Makinde, OD; Vajravelu, K; Wakif, A; Basha, Hussain, Comprehensive examination of the three-dimensional rotating flow of a UCM nanoliquid over an exponentially stretchable convective surface utilizing the optimal homotopy analysis method, **Frontiers in Heat and Mass Transfer,** 14(11), 1-12, (2020).

53. C. Rajashekhar, G. Manjunatha, Hanumesh Vaidya, **K. V. Prasad**, Sami U Khan Rheological effects on peristaltic transport ofBingham fluid through an elastic tube with variable fluid properties and porous walls, **Heat Transfer**, 2020.

54. **G.Manjunatha1, C. Rajashekhar2, Hanumesh Vaidya3*, K. V. Prasad3, Saraswati3, B. B. Divya** Heat Transfer Analysis on Peristaltic Transport of a Jeffery

Fluid in an Inclined Elastic Tube with Porous Walls, **International Journal of Thermofluid Science and Technology,** Vol. 7(1), 20070101, (2020).

55. Manjunatha Gudekote, Divya Baliga , Rajashekhar Choudhari, Hanumesh Vaidya, **K.V. Prasad,** O.D. Makinde, Influence of variable viscosity and wall properties on the peristalsis of Jeffrey fluid in a curved channel with radial magnetic field, **International Journal of Thermofluid Science and Technology,** Vol. 7(2), 070203, (2020).

56. **K.V. Prasad** , Hanumesh Vaidya⸲ O. D. Makind, K. Vajravelu and V. Ramanjini, Impact of Suction/Injection and Heat Transfer on Unsteady MHD Flow over a Coagulated Rotating Disk , **LAAR - Latin American Applied Research, Vol.50(3), 159-165.2020**

57. C. Rajashekhar†, G. Manjunatha‡, Hanumesh vaidya§, **K V Prasad** Divya‡ and J . Saraswati§, Analysis of peristaltic flow of rabinowitsch fluid in a non-uniform channel: analytical approach, **LAAR - latin american applied research**, vol.50(3), 151-158.2020

58. H Vaidya , C Rajashekhar , G Manjunatha , **K V Prasad** , O D Makinde and K Vajravelu, Heat and mass transfer analysis of MHD peristaltic flow through a complaint porous channel with variable thermal conductivity, **Phys. Scr**. 95 (2020) 045219 (11pp).

59. G. Manjunatha, C. Rajashekhar, Hanumesh Vaidya, **K. V. Prasad**, K. Vajravelu, Impact of heat and mass transfer on the peristaltic mechanism of Jeffery fluid in a non-uniform porous channel with variable viscosity and thermal conductivity, **Journal of Thermal Analysis and Calorimetry** Vol.139(2), 1213-1228, 2020.

60. **K.V. Prasad**, Hanumesh Vaidya, K. Vajravelu, O. D. Makinde, G. Manjunatha, Mohammad Rahimi-Gorji and Hussain Basha, (2020) : Heat transfer analysis of three-dimensional mixed convective flow of an Oldroyd-B nanoliquid over a slippery stretching surface, "**Defect and Diffusion Forum: Computational Analysis of Heat Transfer in Fluids and Solids II,** Vol.401, 164-182, 2020".

61. H. Vaidya, **K.V. Prasad**, K. Vajravelu, A. Wakif, N.Z. Basha, G. Manjunatha and U.B. Vishwanatha , Effects of Variable Fluid Properties on Oblique Stagnation Point Flow of a Casson Nanofluid with Convective Boundary Conditions, "**Defect and Diffusion Forum: Computational Analysis of Heat Transfer in Fluids and Solids II,** Vol.401, 183-196, 2020.

62. **K. V. Prasad**, Hanumesh Vaidya, G. Manjunatha, K. Vajravelu, C. Rajashekhar, V. Ramanjini, Influence of Variable Transport Properties on Casson Nanofluid Flow over a Slender Riga Plate: Keller Box Scheme, *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences* Vol. 64(1), Paper No. 19-42, 2019.

63. Divya Baliga, Manjunatha Gudekote, Rajashekhar Choudhari, Hanumesh Vaidya, **K. V. Prasad**, Influence of Velocity and Thermal Slip on the Peristaltic Transport of a Herschel-Bulkley Fluid Through an Inclined Porous Tube, *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences,* Vol. 56(2), Paper No. 195-210, 2019.

64. Manjunatha G , Hanumesh Vaidya, Divya Baliga, Rajashekhar C, **K. V. Prasad**, Viharika, The Effects of Convective and Porous Conditions on Peristaltic Transport of Non-Newtonian Fluid through a Non-Uniform Channel with Wall Properties, *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences* Vol.63 (1) 52-71, 2019.

65. **K. V. Prasad**, Hanumesh Vaidya2, K. Vajravelu, U. B. Vishwanatha, Influence of Variable Liquid Properties on Mixed Convective MHD Flow over a Slippery Slender Elastic Sheet with Convective Boundary Condition. *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences* Vol.56(1)100-123, 2019.

66. Hanumesh Vaidya, **K. V. Prasad**, Srikantha Setty. B, Significances of Homogeneous-Heterogeneous Reactions on Casson Fluid over a Slippery Stretchable Rotating Disk with Variable Thickness, **CFD Letters** Vol.11(4) 41-63, 2019.

67. G. Manjunatha, Hanumesh Vaidya, C. Rajashekhar, **K. V. Prasad,** Peristaltic Flow of a Jeffery Fluid with Heat Transfer in an Inclined Porous Tube under the Influence of Slip and Variable Viscosity, **Defect and Diffusion Forum,** Vol. 393 16-30, 2019.

68. **K.V. Prasad**, Hanumesh Vaidya, K. Vajravelu ,O. D. Makinde, B. Srikantha Setty, MHD mixed convective flow of Casson nanofluid over a slender rotating disk with source/sink and partial slip effects, **Defect and Diffusion Forum,** Vol. 392, 92-122, 2019.

69. Manjunatha Gudekote, Rajashekhar V Choudhari, Hanumesh Vaidya, **K. V. Prasad**, Oluwole Daniel Makinde, Effects of Wall Properties on Peristaltic Transport of Rabinowitsch Fluid through an Inclined Non-Uniform Slippery Tube, **Defect and Diffusion Forum,** Vol. 392 ,138-157, 2019.

70. Hanumesh Vaidya, C. Rajashekhar, G. Manjunatha, **K. V. Prasad**, "Effects of Heat Transfer on Peristaltic Transport of a Bingham Fluid through an Inclined Tube with Different Wave Forms" **, Defect and Diffusion Forum,** Vol. 392, 158-177, 2019.

71. Hanumesh Vaidya, C. Rajashekhar, G. Manjunatha, **K. V. Prasad**, Effect of variable liquid properties on peristaltic flow of a Rabinowitsch fluid in an inclined convective porous channel, **Eur. Phys. J. Plus (2019) 134: 231** https://doi.org/10.1140/epjp/i2019-12536-y **. I F: 2.612**

72. B.B. Divya, G. Manjunatha, C. Rajashekhar, Hanumesh Vaidya, **K.V. Prasad**, Impact of Variable Liquid Properties on Peristaltic Mechanism of Convectively Heated Jeffery Fluid in a Slippery Elastic Tube, **Frontiers in Heat and Mass Transfer (FHMT), 12, 15 (2019).**

73. Manjunatha Gudekote, Rajashekhar Choudhari, Hanumesh Vaidya and **Prasad K. V**., Simultaneous effects of heat transfer and variable viscosity for a peristaltic transport of a Casson fluid flow in an inclined porous tube, **Int. J. of Applied Mechanics and Engineering, 2019, vol.24, No.2, pp.309-328. I F: 0.439**

74. **K.V. Prasad, K**. Vajravelu, Chiu-On Ng[*] and Hanumesh Vaidya U.B.Vishwanatha, Thermocapillarity Effects on the Thin Film Flow of MHD UCM Fluid on an Unsteady Elastic Surface with Convective Boundary Conditions, *International Journal of Thermofluid Science and Technology* (2019) Vol. 6, No. 3, Paper No. 19060303.

75. Manjunatha Gudekote, Rajashekhar Choudhari, Hanumesh Vaidya and **Prasad, K. V.,Saraswati,** Peristaltic flow of a Jeffery fluid over a porous conduit in the presence of variable liquid properties and convective boundary conditions, **International Journal of Thermofluid Science and Technology, Vol. 6 (4), Paper No. 19060201, 2019.**

76. Hanumesh Vaidya, G. Manjunatha, C. Rajashekhar, **K.V. Prasad**, Peristaltic mechanism of a Rabinowitsch fluid in an inclined channel with complaint wall and variable liquid properties", **J Braz. Soc. Mech. Sci. Eng. (2019) 41: 52. 40430-018-1543-4. I F: 1.743**

77. **Hanumesh Vaidya,** G. Manjunatha, C. Rajashekhar, **K.V. Prasad**, Effect of variable liquid properties on peristaltic transport of Rabinowitsch liquid in a convectively heated

complaint porous channel, **J. Cent. South Univ. (2019) 26: 1116−1132 DOI: https://doi.org/10.1007/s11771-019-4075-x. I F: 0.973**

78. Hanumesh Vaidya, C. Rajashekhar, G. Manjunatha, **K. V. Prasad**, O. D. Makinde, S. Sreenadh, Peristaltic Motion of Non-Newtonian Fluid with Variable Liquid Properties in a Convectively Heated Non-Uniform Tube: Rabinowitsch Fluid Model, **Journal of Enhanced Heat Transfer, 26(3):277–294 (2019). I F: 0.562**

79. Hanumesh Vaidya, **K.V. Prasad**, K. Vajravelu, U.B.Vishwanatha, G. Manjunatha, Neelufer. Z. Basha, Buongiorno Model for Nanofluid Flow between Rotating Parallel Plates in the Presence of Variable Liquid Properties, , **Journal of Nanofluid, Vol.8(2), 2019, 399-406. I F: 1.76**

80. Hanumesh Vaidya, **K. V. Prasad,** K. Vajravelu, S. A. Shehzad, and Hussain Basha, Role of Variable Liquid, Properties in 3D Flow of Maxwell Nanofluid Over Convectively Heated Surface: Optimal Solutions, **Journal of Nanofluids, Vol. 8(5), 2019, 1133–1146. I F: 1.76**

81. Hanumesh Vaidya**,** C. Rajashekhar, G. Manjunatha, **K.V. Prasad**, Rheological Properties and Peristalsis of Rabinowitsch Fluid Through Compliant Porous Walls in an Inclined Channel, **Journal of Nanofluids, Vol. 8(5),2019,970-979, I F: 1.76**

82. Manjunatha Gudekote, Rajashekhar V Choudhari, **K. V. Prasad**, Hanumesh Vaidya**,** K. Vajravelu**,** S. Sreenadh, "Peristaltic Pumping of a Casson Fluid in a Convectively Heated Porous Channel with Variable Fluid Properties" **J. Nanofluids 8, 1446–1457 (2019). I F: 1.76.**

83. G. Manjunatha C. Rajashekhar Hanumesh Vaidya   **K. V. Prasad**, K. Vajravelu, Impact of heat and mass transfer on the peristaltic mechanism of Jeffery fluid in a non-uniform porous channel with variable viscosity and thermal conductivity, **Journal of Thermal Analysis and Calorimetry,** P.p.No.1-16, 2019, I.F.: 2.471.

84. Gudekote, Manjunatha; Choudhari, Rajashekhar; Vaidya, Hanumesh; **K V, Prasad**; U, Viharika: Influence of convective conditions on the peristaltic mechanism of Power-law fluid through a slippery elastic porous tube with different waveforms, **Multidiscipline Modeling in Materials and Structures, Vol.16(2), 340-358, 2019 I.F.: 0.75**

85. G. Manjunatha, C. Rajashekhar, Hanumesh Vaidya**, K. V. Prasad,** Peristaltic Mechanism of Bingham Liquid in a Convectively Heated Porous Tube in the Presence of Variable Liquid Properties, **Special Topics & Reviews in Porous Media — An International Journal, 10(2):187–201 (2019). I F: 0.466**

86. **K.V. Prasad,** Hanumesh Vaidya**,** K Vajravelu, B. Srikantha Setty, "MHD Flow of a UCM Nanofluid in a Permeable Channel: Buongiorno's model", **Accepted for Publication in the International Journal of Applied and Computational Mathematics, (2019). I F: 0.51**

87. Hanumesh Vaidya, G. Manjunatha, C. Rajashekhar**, K.V. Prasad**, Heat transfer and Slip Consequences on Peristaltic Transport of a Casson Fluid in an axisymmetric Porous tube, **Accepted for publication in the Journal of Porous Media (2018)**. **I F: 1.49.**

88. Kuppalapalle Vajravelu, Ronald Li, Mangalagama Dewasurendra, Joseph Benarroch, Nicholas, Ossi, Ying Zhang, Michael Sammarco, K.V. Prasad, Effects of second-order slip and drag reduction in boundary layer flows, **Applied Mathematics and Nonlinear Sciences** 3(1) (2018) 291–302.

89. **K. V. Prasad**, K. Vajravelu, Hanumesh Vaidya**,** M. M. Rashidi, and Neelufer.Z. Basha, Flow and Heat Transfer of a Casson Liquid over a Vertical Stretching Surface: Optimal Solution, **American Journal of Heat and Mass Transfer (2018) Vol. 5 No. 1 pp. 1-22.**

90. P. Devaki, S. Sreenadh, K. Vajravelu, **K. V. Prasad**, Hanumesh Vaidya, Wall Properties and Slip Consequences on Peristaltic Transport of a Casson Liquid in a Flexible Channel with Heat Transfer, **Applied Mathematics and Nonlinear Sciences 3(2018),277-290.**

91. Rajashekhar Choudhari, Manjunatha Gudekote**,** Hanumesh Vaidya and **Prasad K. V**., Peristaltic flow of Herschel-Bulkley fluid in an elastic tube with slip at porous walls**, Journal of Advanced Research in Fluid Mechanics and Thermal Sciences Vol. 52(1), (2018) 63-75. I F: 0.146**

92. **K.V. Prasad**, K. Vajravelu, H Vaidya, Neelufer Z Basha and V. Umesh, Thermal and species diffusion of MHD Casson fluid at a vertical sheet in the presence variable fluid properties**, Ains Sham Engineering Journal, <u>Vol. 9(4</u>),2018,1763-1779**. I F: 3.091**

93. C. Rajashekhar, G. Manjunatha, **K.V. Prasad**, B.B. Divya and Hanumesh Vaidya, Peristaltic Transport of Two-Layered Blood Flow Using Herschel-Bulkley Model, **Cogent Engineering,5(1),2018,1-16. I F: 1.350**

94. C. Rajashekhar, G. Manjunatha, Hanumesh Vaidya**,** B.B. Divya, **K.V. Prasad**, Peristaltic flow of casson liquid in an inclined porous tube with convective boundary conditions and variable liquid properties, **Frontiers in Heat and Mass Transfer 11:35,2018.**

95. **K.V. Prasad**, Hanumesh Vaidya, K. Vajravelu and V. Ramanjini**,** Analytical study of Cattaneo-Christov Heat Flux Model for Williamson-Nanofluid Flow Over a Slender Elastic Sheet with Variable Thickness, **Journal of Nanofluids, Vol. 7(3), 2018, pp. 583-594(12). I F: 1.76**

96. Hanumesh Vaidya, G. Manjunatha, C. Rajashekhar, **K.V. Prasad**, Role of slip and heat transfer on peristaltic transport of Herschel-Bulkley fluid through an elastic tube, **Multidiscipline Modeling in Materials and Structures, 14(5):940-959, (2018), I F: 0.75**

97. M. Prasad and K. V. Prasad, Certain identities for a continued fraction of order six, Palestine Journal of Mathematics, Vol. 7(2)(2018) , 608–619

98. **K. V. Prasad**, Hanumesh Vaidya and K. Vajravelu, MHD mixed convection heat transfer over a non-linear slender elastic sheet with variable fluid properties, **Applied Mathematics and Nonlinear Sciences 2(2) (2017) 351–366.**

99. **K. Vajravelu, Ronald Li, M. Dewasurendra, J Benarroah, Nicholas Ossi, Ying Zhanag, Michael Sammarco, and K.V. Prasad**, ,Analysis of MHD boundary layer flow of an Upper- Convected Maxwell fluid with homogeneous-heterogeneous chemical reactions, Communications in Numerical Analysis, Vol.2017 (2), 1-15, 2017

100. **Vishwanath B. Awati , Manjunath Jyoti , K.V. Prasad ,** Series analysis for the flow between two stretchable disks, Engineering Science and Technology,, an International Journal <u>Vol. 20(3)</u>, 2017, Pages 1211-1219. I.F.:2.432

101. **K. V. Prasad,** Hanumesh Vaidya and Patil Mallikarjun B**,** Mixed Convective Fully Developed Flow in a Vertical Channel in the Presence of Thermal Radiation and Viscous Dissipation, **Int. J. of Applied Mechanics and Engineering, 2017, vol.22, No.1, pp.123-144. I F: 0.4**

102. K. Vajravelu, **K.V. Prasad**, Chiu-On Ng and Hanumesh Vaidya**,** MHD squeeze flow and heat transfer of a nanofluid between parallel disks with variable fluid properties and transpiration**, Int J Mech Mater Eng (2017) 12: 9., I.F.:1.082.**

103. **K. Vajravelu, K. V. Prasad P.S.Datti, and Raju, B.T.,** Convective flow, heat and mass transfer of Ostwald-de Waele fluid over a vertical stretching sheet. Journal of King Saud University – Engineering Sciences (2017) 29, 57 –67.I.F.:2.835

104. **K.V. Prasad,** K. Vajravelu, Hanumesh Vaidya and Robert A. Van Gorder, MHD flow and heat transfer in a nanofluid over a slender elastic sheet with variable thickness, **Results in Physics, Vol. 7, 2017, Pp 1462-1474. I F: 3.042**

105. **K.V. Prasad,** K. Vajravelu, Hanumesh Vaidya, M. Rashidi, Effects of Variable Fluid Properties on the MHD flow and Heat Transfer over a Stretching Sheet with Variable Thickness, **Journal of Mechanics, 33(4), 501-512. I.F:1.304**

106. **M. Prasad and K V Prasad**, On (l,m)-regular partitions with distinct parts, has been accepted for publication in The Ramanujan Journal, **46**, pages19–27(2018).

107. K. Vajravelu, **K.V. Prasad,** Chiu-On Ng and Hanumesh Vaidya**,** MHD Flow and Heat Transfer over a Slender Elastic Permeable Sheet in a Rotating Fluid with Hall Current,**. Int. J. Appl. Comput. Math (2017) 3(4): 3175-3200. I F: 0.936.**

108. K Vajravelu, **KV Prasad**, Hanumesh Vaidya, Neelufer Z Basha, Chiu-On Ng, Mixed Convective Flow of a Casson Fluid Over a Vertical Stretching Sheet, **Int. J. Appl. Comput. Math (2017) 3(3), 1619-1638.**

109. K Vajravelu, R Li, M Dewasurendra, **KV Prasad**, Mixed convective boundary layer MHD flow along a vertical elastic sheet, **Int. J. Appl. Comput. Math (2017) 3(3), 2501-2518.**

110. **K. V.Prasad[1*] , Hanumesh Vaidya[1] and K. Vajravelu[2],** MHD mixed convection heat transfer over a non-linear slender elastic sheet with variable fluid properties, Applied Mathematics and Nonlinear Sciences, 2(2) (2017) 351–366.

111. S. Sreenadh, **K. V. Prasad**, H. Vaidya, E. Sudhakara, G. Gopi Krishna, M. Krishnamurthy, MHD Couette Flow of a Jeffrey Fluid Over a Deformable Porous Layer, **Int. J. Appl. Comput. Math (2017) 3(3): 2125-2138.**

112. K. V. Prasad, K. Vajravelu, Hanumesh Vaidya & P. S. Datti ,, Axisymmetric Flow Over a Vertical Slender Cylinder in the Presence of Chemically Reactive Species, *International Journal of Applied and Computational Mathematics* volume 3, pages663–678(2017)

113. **K.V. Prasad**, K. Vajravelu, P.S. Datti, Hanumesh Vaidya, Influence of Hall-Current on MHD Flow and Heat Transfer over a slender stretching sheet in the presence of variable fluid properties**, A Communications in Numerical Analysis, Vol. 1, 17-30, 2016.**

114. **K. Vajravelu, G. Gregory, Ronald Li, M. Dewasurendra and K.V. Prasad,** Hydromagnetic flow and heat transfer of an upper-convected Maxwell fluid in a parallel plate channel with stretching walls, Communication in Numerical Analysis, 2016(2), 180-192, 2016

115. **K.V. Prasad**, K. Vajravelu, Hanumesh Vaidya, Hall effect on MHD flow and heat transfer over a stretching sheet with variable thickness, **International Journal for Computational Methods in Engineering Science and Mechanics Vol. 17(4),288-297, 2016.**

116. **K.V. Prasad** K. Vajravelu, I.S. Shivakumara, Hanumesh Vaidya and Neelufer .Z. Basha, Flow and Heat Transfer of a Casson Nanofluid Over a Nonlinear Stretching Sheet, **Journal of Nanofluids 5, 743-752 (2016)**.I.F:1.76

117. **K. V. Prasad**, K. Vajravelu, Hanumesh Vaidya**, P.S. Datti and V. Umesh. Axisymmetric** mixed convective MHD flow over a Slender Cylinder in the Presence of Chemically Reaction, **International Journal of Applied Mechanics and Engineering. Volume 21(1), Pages 121–141, 2016.I.F: 0.4**

118. **K.V. Prasad**, K. Vajravelu, Hanumesh Vaidya, MHD Casson nano fluid flow and heat transfer at a stretching sheet with variable thickness, **Journal of Nanofluids 5 (3), 423-435, 2016.I.F.:1.76**

119. **K V Prasad**, K. Vajravelu, Hanumesh Vaidya, convective heat and mass transfer flow of a nanofluid past a vertical slender cylinder in a saturated porous medium, **VIJNANA BHARATHI-The frontier journal in SCIENCE, Vol.1(2), 19-38, 2016**.

120. **K. Vajravelu, S. Sreenadh, P. Devaki and K. V. Prasad,** Peristaltic Pumping of a Casson Fluid in an Elastic Tube, **Journal of Applied Fluid Mechanics**, 2016, Vol. 9(4) p1897-1905. I.F.:1.09

121. **K.V. Prasad**, K. Vajravelu¸ and Hanumesh Vaidya**,** Convective micropolar fluid flow over an unsteady stretching surface, **Int. J Applied Mathematical Engineering, vol.21, No.2, pp.407-422, 2016.**

122. **K. V. Prasad**, K. Vajravelu**,** H. Vaidya**,** and Santhi S.R, Axisymmetric flow of a nanofluid past a vertical slender cylinder in the presence of a transverse magnetic field, **Journal of Nanofluids**, **Vol.5, 101-109, 2016. I.F:1.76.**

123. **K. V. Prasad,** K. Vajravelu and B. T. Raju, Hanumesh Vaidya, Heat transfer in a non-Newtonian nanofluid film over a stretching surface, **Journal of Nanofluids, Vol. 4(4), pp. 536-547, 2015.I.F.:1.76.**

124. **K. Vajravelu, S. Sreenadh, P. Devaki and K. V. Prasad:** Peristaltic Transport of a Herschel-Bulkley Fluid in an Elastic Tube, **Heat Transfer Asian Research,** 44 (7), 585-598, **2015**

125. **K.V. Prasad**, Hanumesh Vaidya, K. Vajravelu, MHD mixed convection flow of a viscous fluid in a vertical channel with temperature-dependent transport properties**, JAFM, Vol.8(4), 693-701,2015.*I.F:1.09.***

126. **K. Vajravelu, K. V. Prasad, and S.R.Santhi,** Hydromagnetic flow and heat transfer of a UCM fluid at a stretching surface with fluid particle suspension, AAMM, Vol. **7(2),** pp. 369-386, 2015. I.F.: 0.844.

127. **K. V. Prasad, P. G. Siddheshwar, S. R. Santhi, V.Umesh** Mixed convective flow around a heated vertical slender cylinder with spatio-temporal stretching, Vol.19(4), 475-491, 2014, **Journal of Magnetohydrodynamics, Plasma and Space Research.**

128. **K.V. Prasad, K. Vajravelu**, mixed convection heat transfer in an anisotropic porous medium with oblique principal axis, Vol. (Impact Factor: 0.31). Vol.30(04), 327-338. **Journal of Mecanics**, , 2014.I**mpact factor**: 1.304**.**

129. **K. Vajravelu, K. V. Prasad, P. S. Datti and B. T. Raju**, MHD flow and heat transfer of an Ostwald-de Waele fluid over an unsteady stretching surface, Ain Shams Engineering Journal ASEJ (Elsvier), (2014) 5, 157–167 .I.F.3.091

130. **K. Vajravelu, K. V. Prasad and S. R. Santhi, V.Umesh,** Fluid flow and heat transfer over a permeable stretching cylinder, **JAFM, Vol.7(1), 111-120, 2014. I.F.:1.09.**

131. **K. Vajravelu, K. V. Prasad and Saeid Abbasbandy,** Convective transport of nanoparticles in a multi-layer fluid flow. Vol. **34**(2), 177–188 (2013) **Applied Mathematics and Mechanics I.F: 1.205**.

132. K. Vajravelu, K. V. Prasad and P.S.Datti, Hydromagnetic fluid flow and heat transfer at a stretching sheet with fluid-particle suspension and variable fluid properties, ASME J Fluid Engineering, Vol. 135(1), 011101 (9 pages) , Jan. 2013. I.F.1.283

133. **K. V. Prasad K. Vajravelu and Ioan Pop,** Flow and heat transfer at a nonlinearly shrinking porous sheet: The case of asymptotically large power-law shrinking rates, **International Journal of Applied Mathematical Engineering ,** *2013, vol.18, No.3, pp.779-791.*

134. **K. V. Prasad, P.S. Datti, and B.T.Raju,** Momentum and heat transfer of a non-Newtonian Eyring-Powell fluid over a non-isothermal stretching sheet. **International Journal of Mathematical Archiv,** 4(1), 2013, 230-241 .

135. **K. V. Prasad, K. Vajravelu, P. S. Datti B. T. Raju,** MHD flow and heat transfer in a power-law liquid film at a porous surface in the presence of thermal radiation, *Journal of Applied Fluid Mechanics*, Vol. 6, No. 3, pp. 385-395, 2013. I.F.1.09 **.**

136. **K. V. Prasad, K. Vajravelu, A. Sujatha,** Influence of internal heat generation/absorption, thermal radiation, magnetic field, variable fluid property and viscous dissipation on heat transfer characteristics of a Maxwell fluid over a stretching sheet, *Journal of Applied Fluid Mechanics*, Vol. 6, No. 2, pp. 249-256, 2013**. I.F.1.09**

137. **K. Vajravelu, K. V. Prasad and Raju, B.T.,** The effects of variable fluid properties on the MHD flow and heat transfer of a Ostwald de Waele fluid over an unsteady stretching surface , **Journal of Hydrodynamics** *Volume 25, Issue 1*, *February 2013*, *Pages 10-19. I.F.:1.563*

138. **K. Vajravelu, K. V. Prasad and Chiu-On Ng** : The Effect of Variable Viscosity on the Flow and Heat Transfer of a Viscous Ag-water and Cu-water Nanofluid. **Journal of Hydrodyanmics** *Volume 25, Issue 1*, *February 2013*, *Pages 1-9*. **I.F.:1.563**

139. **K. Vajravelu, K. V. Prasad, and P. S. Datti :**MHD Mixed Convection Flow over a Permeable Non-isothermal Wedge, **Journal of King Soud University** (2013) 25, 313–324. I.F.:2.835.

140. **K. Vajravelu, K. V. Prasad and Chiu-On Ng** , Unsteady boundary layer flow and heat transfer at a stretching surface with variable thermo-physical properties, *Non-linear Analysis B Real World Applications,* 14(1), 455-464, 2013, **Impact Factor: 2.267.**

141. **K. Vajravelu, K. V. Prasad and S. R. Santhi,** Axisymmetric MHD flow and heat transfer over a non-isothermal stretching cylinder, **Applied Mathematics and Computation,** Vol. 219 (8) (December 15, 2012), p. 3993-4005, 2012.**Impact Factor: 3.092**

142. **K. V. Prasad:** Flow and heat transfer at a nonlinearly shrinking porous sheet in a thermally stratified medium, **International Journal of Mathematical Archives, Vol. 3(8), 3004-3015, 2012. Impact Factor: 0.8**.

143. **J. C. Umavathi, K. V. Prasad, Shekar, M**: Convective Heat Transfer in a Vertical Channel Filled with a Nanofluid, **Int. J .Innovative technology and creative Engineering,** VOL.2 NO.7 JULY 2012,1-10.

144. **K. V. Prasad, B. T. Raju,** Similarity solutions for heat transfer in a Ostwald-de waele fluid flow past a non-linearly stretching surface, *Journal of Computer and Mathematical Sciences* **Vol.3(4), 486-497 (2012)**.

145. **K.V. Prasad,** Heat transfer in a Ostwald-De-Waele fluid over a stretching sheet with prescribed heat flux**.** *Journal of Computer and Mathematical Sciences***,** Vol.3(3), 396-413, 2012, I.F: No.

146. **K.V. Prasad, P. S. Datti, S. R. Santhi**, Non- Newtonian Power law Fluid Flow and Heat Transfer over a non-Linearly Stretching Surface, *Applied Mathematics* **2012, 3, 425-435**.

147. **K.Vajravelu, K.V.Prasad**, Convective transport of nanofluid particles: a Review, *Reviews in Nano science and Nano Technology***, Vol.1, 142-151, 2012.**

148. **K. Vajravelu, K. V. Prasad and Chiu-On Ng:** Unsteady flow and heat transfer in a thin film of Ostwald-de Waele liquid over a stretching surface, Vol.17(11), 4163-4173, 2012,*CNSNS***, Impact Factor: 3.967**.

149. **K. Vajravelu; K. V. Prasad; A. Sujatha; Chiu-On Ng** : MHD flow and mass transfer of a chemically reactive upper convected Maxwell (UCM) fluid past a porous surface, *Applied Mathematics and Mechanics***,** 33(7), 899-910 (2012) **I.F: 1.205**.

150. **Robert Van Gorder, K.Vajravelu, K.V.Prasad**, Convective heat transfer in the vertical channel flow of a clear fluid adjacent to a nanofluid layer: A two-fluid model, *Heat Mass Transfer*. 2012, Volume 48 (7) , Pages 1247-1255. **Impact Factor: 1.494.**

151. **K.Vajravelu, K.V.Prasad**, Heat transfer phenomena in a moving nanofluid over a horizontal surface, *Journal of Meccanica Vol. 28, No. 4, December 2012, 391-400,* **Impact factor**: 1.304.

152. **K.V. Prasad, A. Sujatha, K. Vajravelu, I. Pop,** MHD flow and heat transfer of a UCM fluid over a stretching surface with variable thermo-physical properties, *Meccanica*. **Vol. 47(6) (2012), 1425-1439** Impact factor:2.316.

153. **K. Vajravelu, K. V. Prasad, Robert A. Van Gorder, Jinho Lee:** Free convection boundary layer flow past a vertical surface in a porous medium with temperature-dependent properties, *Transport in Porous Media*. , **Vol.90(3), 977-992,(2011). Impact Factor: 2.211.**

154. **K. Vajravelu K.V. Prasad, N.S. Prasanna Rao**: Diffusion of a chemically reactive species of a power-law fluid past a stretching surface, Computers *with mathematics and its applications, Vol.62(1), 93-108* (2011). **Impact Factor: 2.811.**

155. **K. Vajravelu, S. Sreenadh, P. Devaki, K.V. Prasad**: Mathematical model for a Herschel-Bulkley fluid flow in an elastic tube, *Central European journal of Physics ,Vol.9(5), 1357-1365,* (2011), **Impact Factor:.0.905.**

156. **K. V. Prasad, K. Vajravelu, Robert A. Van Gorder:** Non-Darcian flow and heat transfer along a permeable vertical surface with nonlinear density temperature variation, Acta Mechanica, Vol.220(1-4), 139-154, (2011), **Impact Factor: 2.166.**

157. **K. Vajravelu, K.V. Prasad Jinho Lee, Changhoon Lee, I. Pop, Robert A. Van Gorder**: Convective heat transfer in the flow of viscous Ag-water and Cu-water nanofluids over a stretching surface, *Int. J. Thermal Sciences,* Vol.50, 843-851, (2011) **Impact Factor: 3.361.**

158. **K Vajravelu, K. V. Prasad, A Sujatha**: Convection flow and heat transfer of a Maxwell fluid over a non-isothermal surface, *Central European journal of Physics*, Vol. 9(3) 807-815, (2011) **Impact Factor: 0.905**.

159. **K.V. Prasad, K.Vajravelu, P. S. Datti:** Mixed convection heat transfer over a non-linear stretching surface with variable fluid properties. Int. J. Non-Linear Mechanics, Vol.45 (3), 320-330, (2010) **Impact Factor: 2.163.**

160. **K.V. Prasad, K. Vajravelu, P.S. Datti:** The effects of variable fluid properties on the hydromagnetic flow and heat transfer over a non-linearly stretching sheet, Int. J. Thermal Sciences Vol. 49(3), 603-610, (2010), **Impact Factor:.3.361.**

161. **K.V. Prasad, P.S. Datti, K. Vajravelu:** Hydromagnetic flow and heat transfer of a non-Newtonian Power law fluid over a vertical stretching sheet, Int. J. Heat and Mass Transfer, Vol.53(5-6), 879-888, (2010) **Impact Factor: 3.891.**

162. **K.V. Prasad, Dulal Pal, V. Umesh, N.S. Prasanna Rao** :The effect of variable viscosity on MHD visco-elastic fluid flow and heat transfer over a stretching sheet. CNSNS, 15, 331-344, 2010, **Impact Factor: 3.967**.

163. **K.V. Prasad, K. Vajravelu** :Heat Transfer in the MHD Flow of a Power Law Fluid over a Non-isothermal Stretching Sheet, Int. J. Heat Mass Transfer, 52, 4956-4965, 2009, **Impact Factor: 3.891**.

164. **K. V. Prasad, N. S. Prasanna Rao, V. Umesh**: Effect of Chemical Reaction on Unsteady MHD Convective Heat and Mass Transfer past a Semi-infinite plate in the Presence of Radiation, Journal of Analysis and Computation, Vol.5(1) 75-90, 2009, **Impact Factor: NA**.

165. **K.V.Prasad, P.S.Datti**: Numerical Study of Non-Darcy forced convective heat transfer of a power law fluid over a non-isothermal stretching sheet, Int.J. Applied Mechanics and Engineering, Vo.14(2), 473-488,2009, **Impact Factor:. 0.439.**

166. **K.V. Prasad, Dulal Pal, P.S. Datti**: MHD flow and heat transfer in the flow of a power law fluid over a non-isothermal stretching sheet CNSNS, Vol.14(5), 2178-2189, 2009, **Impact Factor: 3.967**.

167. **V. Rajappa and K. V. Prasad:** Magnetohydrodynamic flow and heat transfer in the flow of a power law fluid over a non-iso thermal stretching sheet with variable thermal conductivity , First International Conference on Emerging Trends in Engineering & Technology 1077-1082, 2008.

168. **K.V.Prasad, P.S.Datti**: Non-Newtonian power law fluid flow and heat transfer in a porous medium over a non-isothermal stretching sheet, Int.J.Fluid Mechanics Research Vol.35(5), 417-433, 2008 **Impact Factor: 0.446.**

169. **P.S.Datti, K.V.Prasad**: Numerical solution of some boundary layer problems using kellor Box method, Proc. Int. Conf. on Advances in Applied Mathematics, (With P.S. Datti), P.No.102-105, 2006,Department of mathematics, G.U.Gulbarga, **Impact Factor:NA**.

170. **Subhas Abel, K.V. Prasad, Ali Mahaboob**: Buoyancy force and thermal radiation effects in MHD boundary–layer visco-elastic fluid flow over continuously moving stretching surface, Int.J.Thermal Sciences, Vol. 44,465-476, 2005, **Impact Factor: 3.361**.

171. **P.S. Datti, K.V. Prasad, M. Subhas Abel, Ambuja Joshi:** MHD visco-elastic fluid flow over a non-isothermal stretching sheet, Int. J. of Engineering Science,.42, .935-946, 2004, **Impact Factor: 9.052.**

172. **Subhas Abel, K.V. Prasad, Ali Mahaboob** : Convective heat transfer in the flow of viscoelastic fluid saturated in a porous medium over a non-isothermal stretching sheet, American Society of Mechanical Engineers, Fluids Engineering division (Publication) FED 259, 2003, 721-744, **Impact Factor: NA**.

173. **K.V. Prasad, Subhas Abel, P.S. Datti:** Diffusion of chemically reactive species of a non-Newtonian fluid immersed in a porous medium over a stretching sheet Int.J Non-Linear. Mechanics, 38(5), 651-657, 2003, **Impact Factor: 2.225.**

174. **R.M.Sonth, S.K.Khan, M.S.Abel, K.V.Prasad:** Heat and Mass transfer of visco-elastic fluid over an accelerating surface with heat source sink and viscous dissipation, Heat Mass Transfer, 38, 213-220, (2002) **Impact Factor: 1.551 .**

175. **Subhas Abel, Ambuja Joshi, K.V. Prasad, Mahaboob Ali:** Hydromagnetic Visco-elastic fluid flow and heat transfer over a non-isothermal   stretching sheet, Int. J. of Transport Phenomena, 4, 225-233, (2002) **Impact Factor: NA**

176. **M. Subhas Abel, Sujit Kumar Khan K.V. Prasad** : Study of visco-elastic fluid flow and heat transfer over a stretching sheet with variable viscosity. , Int. J. Non-Linear Mechanics. 37, 81-88, (2002) **Impact Factor: 2.225.**

177. **K.V.Prasad, M. Subhas Abel, Sujit Kumar Khan, P.S.Datti:** Non-Darcy Forced Convective Heat Transfer in a Visco-elastic Fluid Flow Over a non- Isothermal Stretching Sheet, J. Porous Media. USA Vol. 5(1), 41-47, (2002) **Impact Factor: 1.49.**

178. **M. Subhas Abel, S.K. Khan, K. V. Prasad:** Convective heat transfer in the flow of visco-elastic fluid in a porous medium past a   stretching sheet, A.M.S.E. Journal. France, 70 (7- 8), 29-38, (2001) **Impact Factor: NA.**

179. **M. Subhas Abel, S. K. Khan, K. V. Prasad**: Convective Heat and Mass Transfer in a Visco-elastic fluid Flow through a Porous Medium over a Stretching Sheet, Int. J. Numerical Methods for Heat and Fluid Flow. 11(8), 779-792, (2001), **Impact Factor: 1.59.**

180. **K.V.Prasad, M. Subhas Abel, Sujit Kumar Khan:** Momentum and heat transfer in visco-elastic fluid in a porous medium over a   non-isothermal stretching sheet, Int. J. Numerical Methods   for Heat and Fluid Flow. 10(8), 786-801, (2000) **Impact Factor: 1.59**.

181. **K.V.Prasad, M. Subhas Abel, Ambuja Joshi:** Oscillatory motion of a Visco-elastic fluid over stretching sheet in a porous media, J. Porous Media. USA, 3(1), 61-68, (2000) **Impact Factor: 1.49**.

References:

1. Prof. M.Subhas Abel, Department of Mathematics, Gulbarga University, Gulbarga.
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