

CURRICULUM VITAE

Dr. Hanumesh Vaidya



Official Address:

Associate Professor, Department of Studies in Mathematics, Vijayanagara Sri Krishnadevaraya University, Jana Sagara, Vinayaka Nagar, Contonment, Ballari:583105, Karnataka, India.

Emali: hanumeshvaidya@gmail.com

hvaidya@vskub.ac.in

Mobile: 9448778205

Permanent Address:

Door No 246, "Srinidhi", Behind Badarinarayana Temple, Gandhinagar, Ballari: 583103, Karnataka, India.

Employment:

- 01-06-2019 to till date, working as Associate Professor, Department of Studies in Mathematics, Vijayanagara Sri Krishnadevaraya University, Jana Sagara, Vinayaka Nagar, Contonment, Ballari: 583105, Karnataka, India.
- 05-09-2009 to 31-05-2019 worked as Assistant Professor, Department of Mathematics, SSA Government First Grade College (Autonomous) Ballari: 583101, Karnataka, India.
- 01-06-1998 to 01-09-2009 worked as a Lecturer, Vice Principal, Principal and Correspondent: Sri Guru Vidhyadhiraj PU College, Bhatkal, Shree Guru Sudhindra Degree College, Bhatkal and Bhatkal Education Trust, Bhatkal.

Education:

- 2014-2018, Ph.D., Vijayanagar Srikrishnadevaraya University, Ballari, Karnataka, India, thesis “**Theoretical Analysis of Fluid Flow in Different Shapes: Numerical / Analytical Approach**” advisor **Prof. K V Prasad**.
- 1996-1997, M.Phil., Gulbarga University, Gulbarga, Karnataka, India, “**On the Performance of Porous Slider Bearing Lubricated by Couple Stress Fluid with Special Reference to Synovial Joints**” advisor **Prof. S S Chetty**.
- 1994-1996, M.Sc., Gulbarga University, Gulbarga. Specialization: Fluid dynamics and Graph theory.
- 1990-1993, B.Sc, SES College Sandur, Gulbarga University Gulbarga.

Mathematical Interests:

Numerical and Analytical Methods, Continuous Moving surfaces, Newtonian/non-Newtonian fluids, Nanofluids, Peristalsis of Biofluid, Convective heat and mass transfer, porous media, MHD fluid flows.

Memberships:

Life Membership of *Life Membership of Indian Society of Theoretical and Applied Mechanics (ISTAM) LM. No L/682.*

Orientation Programme: Attended a UGC sponsored Orientation Programme from 10th Nov 2010 to 07th Dec 2010 held at **UGC Academic Staff College, University of Pune.**

Refresher Course: Attended UGC sponsored Refresher Course from 01th March 2013 to 21st Mar 2013 held at **Academic Staff College, University of Mysore.**

Research Project:

Completed Research Project, “A Study of Rheological Behavior of Variation of Hematocrit of Human Blood with reference to Iron Deficiency Anemia” MRP(S)-0060/12-13/KAGU062/UGC-SWRO, 2013-2015.

Papers reviewed for Journals:

Heat and Mass Transfer, Chemical Engineering Communications, International Journal of Thermophysics, Journal of Porous Media, Applied Mathematics in

Engineering, International Journal of Fluid Mechanics Research, Defect and Diffusion Forum, Latin American Applied Research.

Administrative activities

- **Member Secretary, Academic Council, SSA Government First Grade College (Autonomous), Ballari from June 2015 to May 2019.**
- **RUSA :**
 - ✚ **Coordinator, SSA Government First Grade College (Autonomous), Ballari.**
 - ✚ **Coordinator, Gulbarga Division.**
 - ✚ **Coordinator, Ballari District.**
 - ✚ **Convener of RUSA Inspection Committee to inspect Three districts (Dharwad, Karwar and Belgam) Government First Grade Colleges, Aug 2018.**
- **Autonomous College Coordinator-
Coordinator, SSA Government First Grade College (Autonomous), Ballari from 2015 to May 2019.**
- **Training and Placement officer/ Career and Councelling Cell:
SSA Government First Grade College (Autonomous), Ballari from 2009 to May 2019.**
- **Vikasana Coordinator/ Naipunnaya Nidhi:
Coordinator, SSA Government First Grade College (Autonomous), Ballari from 2010 to May 2019.**
- **Correspondent, Bhatkal Education Trust, Bhatkal, Uttara Kannada, from Feb 2008 to Sep 2009.**

International/National Conferences Organized/Attended /Paper presented

Organized an International Conference on “*Emerging Trends in Mathematical Sciences in the Department of Mathematics,*” as a Co-Convener, VSK University Bellary from 25-26th July 2014.

Organized National Seminar on “*Human Rights and Values in Education*” as a Co-Convener, SSA GFGC (Autonomous), Ballari, 23rd and 24th, March 2015.

Paper presentation in National /International Conference

1. Presented a paper on ***"Impact of Variable Viscosity and Thermal Conductivity on the MHD Peristaltic Flow of Bingham Liquid in a Non-Uniform Channel with Slip Effects,"*** International Multidisciplinary Research Foundation 100th International Conference in Collaboration with Carmel College of Arts, Science and Commerce for Women, Nuvem, Goa, India. During March 14-16, 2019.
2. Presented a paper on ***"Role of variable liquid properties in 3D flow of Oldroyd-B nanofluid over convectively heated surface in the presence of Newtonian Heating"*** National Seminar on Facing Challenges on Environmental, Climate, Agriculture, and Human Health: national and Regional Scenario, Department of Physics, Sri Krishnadevaraya University, Anantapuram, AP, during 27th and 28th January 2018.
3. Presented a paper on ***"Transpiration and Slip Effects on MHD Squeezing Flow and Heat Transfer of nanofluid Between Two Parallel Discs"*** National Conference on Environmental Pollution and its Impact on Regional Climate Change (EPRCC-2017), Department of Physics, Sri Krishnadevaraya University, Anantapuram, AP, during 10th and 11th March 2017.
4. Presented a paper on ***"MHD Flow and Heat Transfer over an Elastic Stretching Sheet in the Presence of Hall Current and Variable Fluid Properties"*** National conference on Geometry, Topology & Their Application (NCGTA-2016) Department of Studies and Research in Mathematics, Karnataka University, Dharwad-580003, during 03rd & 04th August 2016.
5. Paper presented on ***"Effect of Magnetic Field on Casson nanofluid Flow and Heat Transfer over a Slender Stretching Sheet in the Presence of Variable Fluid Properties"*** National Conference on Environmental Pollution and its Impact on Regional Climate Change (EPRCC-2016), Department of Physics, Sri Krishnadevaraya University, Anantapuram, AP, during 11th and 12th March 2016.

6. Presented a paper on "***Flow and Heat Transfer in a MHD Casson nanofluid over a Slender Stretching Sheet in the presence of Variable Fluid Properties***", ***International Conference on Differential Geometry, Analysis and Fluid Mechanics (ICDGAFM-2016)***, Department of PG Studies and Research in Mathematics, Kuvempu University, Shimoga, during 4th and 5th February 2016.
7. Presented a paper on "***The Effect of Variable Fluid Properties on the MHD flow and Heat Transfer over a Stretching Sheet with Variable Thickness***", ***National Conference on Mathematics and its Applications (NCMIA-2015)***, Department of Mathematics, Sri Venkateshwara University, Tirupati, AP, during 22nd and 23rd December 2015.
8. Presented a paper on "***Mathematical Modeling of Hematocrit of Human Blood with reference to Iron Deficiency Anemia***" ***National conference on Recent Advances in Applied Mathematics (NCRAAM-2014)***, Department of Studies and Research in Mathematics, Gulbarga University, Gulbarga-585106, during 11th & 12th September 2014.
9. Presented a research article "***Rheological Behavior of Hematocrit of Human Blood with reference to Iron Deficiency Anemia: Numerical approach***" in ***International Conference on Emerging Trends in Mathematical Sciences (ICTMS-2014)*** at Department of Mathematics, VSK University Bellary, Bellary-583104, during 25-26 July 2014.
10. Presented a research article "***Performance of porous Slider bearing lubricated by couple Stress Fluid with special Reference to Synovial Joints***" in "***3rd International Conference on Frontiers of Mathematics & Application (ICFMA-2014)***" at Department of Mathematics, University of Burdwan, Burdwan-713104, during 29-31 January 2014.
11. Presented a research paper "***Mathematical Analysis of Iron Deficiency Anemia: Theoretical approach***" at Two days National Conference on Facing Challenges on Climate: Earth and Atmospheric at Anantapur (AP) during 30th and 31st October 2012.

Workshop/ Training attended

1. Participated in one-day national workshop on “Revised Assessment and Accreditation Framework of NAAC” held on 9th March 2019 at SSA Government First Grade College (Autonomous), Ballari.
2. Participated in “One-day workshop for Principals and Placement Co-ordinators of Ballari, Raichur, Koppal Districts of Kalburgi Region” held on 23rd March 2018 at GFGC, Hospet.
3. Participated in Science Academics’ Lecture Workshop on “Application of Differential Equation in Engineering and Biology,” held during March 9th -11th 2017 at the Department of Mathematics, Sri Venkateshwara University, Tirupati.
4. Participated in “One-day workshop for Principals and Placement Co-ordinators of Raichur, Koppal and Ballari Districts of Kalburgi Region” held on 23rd September 2016 at GFGC Koppal.
5. Participated in Faculty workshop on “Modernizing the Syllabus for UG Teachers” held on 6th July 2015 at VSK University Ballari.
6. Participated in Two days INSPIRE Internship Science Camp 2016 organized by Department of Physics SK University Anantapur (AP) during 24th-28th August 2016.
7. Participated in Training, Train the Trainer Program for “Global Business Foundation Skills,” Infosys BPO Ltd. At Mysore from 17 – 25, November 2014.
8. Participated in Two days National Workshop on Transit of Venus and Related Phenomenon (NWTV-2013) organized by Department of Physics, SK University, Anantapur (AP) on 2nd and 3rd March 2013.
9. Participated in the State Level awareness Programme on “Continuous Quality and Excellence (CEQE) in Colleges” organized by Regional Joint Directorate, Gulbarga, on 12-04-2012.

10. Training: Teacher Empowerment Training for Assistant Professors, Department of Collegiate Education in collaboration with Karnataka Jnana Ayoga, 04-10, December 2011.

List of Publications

1. **Hanumesh Vaidya**, K.V. Prasad, Vajravelu K, Oluwole Daniel Makinde, Abderrahim Wakif, Neelufer Z Basha, Gudekote Manjunatha, Vishwanatha U.B. Stagnation Point Flow of a Casson Nanofluid with Convective Boundary Conditions, **Accepted for Publication in the Journal of Defect and Diffusion Forum: Computational Analysis of Heat Transfer in Fluids and Solids II, (2019).**
2. 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).**
3. K.V. Prasad, **Hanumesh Vaidya**, K. Vajravelu, O. D. Makinde, G. Manjunatha, Mohammad Rahimi-Gorji, Hussain Basha, Heat transfer analysis of three-dimensional mixed convective flow of an Oldroyd-B nanoliquid over a slippery stretching surface, **Accepted for Publication in the Journal of Defect and Diffusion Forum: Computational Analysis of Heat Transfer in Fluids and Solids II, (2019).**
4. C. Rajashekhar, G. Manjunatha, **Hanumesh Vaidya**, K. V. Prasad, O. D. Makinde, K. Vajravelu, Saraswathi, Impact of Slip and Variable Liquid Properties on the Peristaltic Flow of Rabinowitsch Fluid in a Non-Uniform channel, **Accepted for Publication in the Journal of Defect and Diffusion Forum: Computational Analysis of Heat Transfer in Fluids and Solids II, (2019).**

5. G. Manjunatha, B.B. Divya, C. Rajashekhar, **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, **Accepted for Publication in the Journal of Defect and Diffusion Forum: Computational Analysis of Heat Transfer in Fluids and Solids II, (2019).**
6. C. Rajashekhar, G. Manjunatha, **Hanumesh Vaidya**, K. V. Prasad, O. D. Makinde, K. Vajravelu, Heat and Mass Transfer Analysis on MHD Peristaltic Flow through a Complaint Porous Channel with Variable Thermal Conductivity and Convective Conditions, **Accepted for Publication in the Journal of Defect and Diffusion Forum: Computational Analysis of Heat Transfer in Fluids and Solids II, (2019).**
7. **Hanumesh Vaidya**, K Prasad, Vajravelu K, B. Srikantha Setty, Effects of Variable Liquid Properties on MHD Flow and Heat Transfer of a Casson Fluid over a Slender Rotating Disc: Numerical and Optimal solution, **Accepted for publication in the Journal Computational Thermal Sciences (2018).**
8. **Hanumesh Vaidya**, G. Manjunatha, C. Rajashekhar, K.V. Prasad, Heat transfer and Slip Consequences on Peristaltic Transport of a Casson Fluid in a Porous axisymmetric tube, **Accepted for publication in the Journal of Porous Media (2018).**
9. G. Manjunatha, C. Rajashekhar, **Hanumesh Vaidya**, and 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, (2019), <https://doi.org/10.1108/MMMS-01-2019-0006>.**
10. 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, **J Therm Anal Calorim (2019). <https://doi.org/10.1007/s10973-019-08527-8>.**

11. 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.
12. **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> .
13. **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).
14. 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, pp. 16-30, 2019, doi: 10.4028/www.scientific.net/DDF.393.16.
15. **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>.
16. Divya Baliga, Manjunatha Gudekote, Rajashekhar Choudhari, **Hanumesh Vaidya** and Kerehalli Vinayaka 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), (2019) 195-210.
17. **Hanumesh Vaidya**, K.V. Prasad, B. Srikantha Setty, Significances of Homogeneous-Heterogeneous Reactions on Casson Fluid Over A Slippery Stretchable Rotating Disk with Variable Thickness, **CFD Letters**, Vol.11(4),pp 41-63, 2019.

18. 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, pp. 92-122, 2019**, <https://doi.org/10.4028/www.scientific.net/DDF.392.92>.
19. 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, pp. 138-157, 2019**.
20. **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, pp. 158-177, 2019**.
21. **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, pp. 158-177, 2019**.
22. 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)**.
23. K.V. Prasad, **Hanumesh Vaidya**, 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) (2019) 100-123**.
24. 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)**.

25. 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)**.
26. **Hanumesh Vaidya**, G. Manjunatha, C. Rajashekhar, K.V. Prasad, Peristaltic mechanism of a Rabinowitsch fluid in an inclined channel with compliant wall and variable liquid properties", **J Braz. Soc. Mech. Sci. Eng. (2019) 41: 52**. <https://doi.org/10.1007/s40430-018-1543-4>.
27. **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**.
28. **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**.
29. **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**.
30. 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**.
31. 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**, **Vol. 9(4),2018,1763-1779.**, <http://dx.doi.org/10.1016/j.asej.2016.08.017>.
32. 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 Condition and Variable Liquid Properties, **Frontiers in Heat and Mass Transfer 11:35,2018.**
33. 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.**
 34. **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).**
 35. 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).**
 36. 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.**
 37. **Hanumesh Vaidya**, An Optimal Analysis of Flow and Heat Transfer over a Slender Permeable Elastic Sheet with Variable Fluid Properties, **IOSR Journal of Engineering (IOSRJEN), Vol. 08(6), pp 49-60, 2018.**
 38. K. V. Prasad, K. Vajravelu, **Hanumesh Vaidya**, M. M. Rashidi, and Neelufur.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.**
 39. **Hanumesh Vaidya**, Flow and heat transfer characteristics of a Dusty UCM fluid over a permeable stretching surface, **Journal of Emerging Technologies and Innovative Research, 2018, Vol.5(6), pp 691- 701.**
 40. **Hanumesh Vaidya**, Mixed Convection Heat Transfer over a Porous Elastic Sheet with Temperature-Dependent Transport Properties., **Journal of Emerging Technologies and Innovative Research, 2018, Vol.5 (6), pp 701-714.**

41. 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.
42. 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.
43. 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. <https://doi.org/10.1186/s40712-017-0076-4>.
44. 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 DOI: 10.1515/ijame-2017-0008.
45. 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: 3175. <https://doi.org/10.1007/s40819-016-0291-3>.
46. 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. doi:10.1017/jmech.2016.101.
47. 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: 2125. <https://doi.org/10.1007/s40819-016-0232-1>.
48. 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: 1619. <https://doi.org/10.1007/s40819-016-0203-6>.

49. 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.**
50. 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),2016.**
51. K.V. Prasad K. Vajravelu, I.S. Shivakumara, **Hanumesh Vaidya** and Neelufar .Z. Basha, Flow and Heat Transfer of a Casson Nanofluid Over a Nonlinear Stretching Sheet, **Journal of nanofluids 5, 743-752 (2016).**
52. 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. Vol. 21(1),121–141, 2016.**
53. 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.**
54. 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, **Communications in Numerical Analysis, Vol. 1, 17-30, 2016.**
55. 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.**
56. 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.**
57. K.V.Prasad, K.Vajravelu, P.S.Datti, **Hanumesh Vaidya**, Axisymmetric Flow over a Vertical Slender Cylinder in the presence of Chemically Reactive

Species, **Int. J. Appl. Comput. Math** (2017) 3: 663.
<https://doi.org/10.1007/s40819-015-0121-z>.

58. 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, pp. 1–12, 2015.
59. 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.
60. Anitha V and Ramakrishna Prasad, **Hanumesh Vaidya**, Flow and Heat Transfer over a Stretching Sheet Embedded in a Porous Media with Fluid-Particle Suspension, **IJISSET - International Journal of Innovative Science, Engineering & Technology**, Vol .2(8), PP 457-474, 2015.
61. G Manjunatha, KS Basavarajappa, G Thippeswamy, **Hanumesh Vaidya**, Peristaltic Transport of Three-Layered Viscous Incompressible Fluid, **Global Journal of Pure and Applied Mathematics**, Vol. 9(2), 93-107, 2013.