PROFILE

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IDENTIFIERS

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BOOKS PUBLISHED:

Advanced Differential Equations(Studera Press)

Areas of Research Interest:

- Numerical analysis
- Heat and Mass Transfer Problems
- Two- Phase Flows
- Numerical Methods

Dr. Prasannakumara .B.C

M. Sc., Ph. D.,

Professor,
Department of studies and research in Mathematics,
Davangere University,
Shivagangotri, Davangere- 577002, Karnataka, India.

WORK EXPERIENCE

- Professor,Davangere University,Davangere,[June-2022- Present]
- Associate Professor, Davangere University,Davangere-577007 [May-2019 to May-2022]
- Assistant Professor, Government First Grade College, Koppa-577126, [September, 2009 -May 2019]
- Assistant Professor, SBM Jain College of Engineering Bangalore.[June 2005 - August 2009]
- Assistant Professor,BTL College of Engineering and Technology, Bangalore. [June 2004 - Mayt 2005]
- Assistant Professor, Bangalore College of Engineering and Technology, Bangalore. [March2001 – May 2004]

RESEARCH ACTIVITIES

Achievements/Awards

- Awarded Sir C V Raman young scientist award instituted by Government of Karnataka
- Seed Money for Young Scientist for Research Vision Group on Science and Technology, Government of Karnataka, 2014.
- Included in recently published list of the top 2% most widely cited scientists in different disciplines, the World's Top 2% Scientists by Stanford University
- Received the 'VGST Award for Research Publications (ARP) 2020-21 in the field Computational and Mathematical Sciences by the Government of Karnataka, Vision Group on Science and Technology (VGST).
- Best Paper Award of International Journal of Modelling and Simulation (IJMS) for Year 2023: entitled "Dynamics of thermal Marangoni stagnation point flow in dusty Casson nanofluid"
- Five papers have been recognized as a top cited Article -2020-21 and 2021-22 in Heat Transfer, ZAMM - Journal of Applied Mathematics and Mechanic and Numerical Methods for Partial Differential Equations WILEY Publications

Publications in Scimago Journal Rank:

Q1=38, Q2=84, Q3=65, Q4=14

Google Scholar Citations Matrix:

Citations: 10747, **H-Index:** 58, **i10 index:** 152

Research Guidance Details (M. SC./M.PHIL/PH.D):

Ph. D : Guided – 05 **Guiding** – 08

Educational Qualifications

Sl. No.	Degree	Specialization/ Subjects	University	Year of Award/ Passing
1	**PhD.,**	Mathematics	Kuvempu University, Shankaraghatta,Shimoga, Karnataka. Guide: Prof C. S. Bagewadi	2007
2	**PG**	Mathematics	Kuvempu University, Shankaraghatta,Shimoga, Karnataka.	2000
3	**UG**	PCM	Kuvempu University, Shankaraghatta,Shimoga, Karnataka.	1997

Research Projects:

Sl. No.	Title of the Project	Funding Agency	Project Budget	Period	Status
1.	A Study on Magneto Dusty Fluid Flow in Frenet Frame Field System	UGC (Minor Project)	1,50,000.00	March 2011 to September 2012	Completed
2.	Boundary layer analysis of two-phase fluid flow structure and heat transfer over a stretching/shrinking sheet	Vision Group on Science and Technology, Government of Karnataka.	6,000,00.00	March 2014 To March 2016	Completed
3.	Numerical investigation on boundary layer flow of fluid particle suspension and heat transfer over a stretching/shrinking sheet	UGC Major Research Project	Rs.12,25,000.00	April 2015 to April 2018	Completed
4.	Studying Massive Suction Impact and Rosseland's Radiative Process on Magneto-Flow of a Nanofluid on a Porous Surface	Science and Engineering Research Board, Department of Science	Rs.15,00,000.00	November 2023	-

		and Technology, Government of India			

No. of students Supervising (PhD.,):					
Sl. No.	**Name of the Candidate/s**	**University**	**Year of registration**	**Area of Specialization**	**Whether Final Thesis Submitted (Y/N)**
1.	Jyothi A. M	Visvesvaraya Technological University	2016	Fluid mechanics	Y
2.	Madhukesh J. K	Davangere University, Shivagangotri, Davangere- 577002, Karnataka	2020	Fluid mechanics	Y
3.	Naveen Kumar R.	Davangere University, Shivagangotri, Davangere- 577002, Karnataka	2020	Fluid mechanics	Y
4.	Punith Gowda R. J.	Davangere University, Shivagangotri, Davangere- 577002, Karnataka	2020	Fluid mechanics	Y
5.	Varun Kumar R.	Davangere University, Shivagangotri, Davangere- 577002, Karnataka	2020	Fluid mechanics	Y
6.	K. C. Jagadeesha	Davangere University, Shivagangotri, Davangere- 577002, Karnataka	2021	Solid mechanics	N
7.	Madhu J	Davangere University, Shivagangotri, Davangere- 577002, Karnataka	2023	Fluid mechanics	N
8.	Vinutha K	Davangere University, Shivagangotri, Davangere- 577002, Karnataka	2023	Fluid mechanics	N

9.	Karthik K	Davangere University, Shivagangotri, Davangere- 577002, Karnataka	2023	Solid mechanics	N
10.	Vishwanath R Banakar	Davangere University, Shivagangotri, Davangere- 577002, Karnataka	2024	Fluid mechanics	N
11.	Mallikarjun A N	Davangere University, Shivagangotri, Davangere- 577002, Karnataka	2024	Fluid mechanics	N
12.	Thejaswini G K	Davangere University, Shivagangotri, Davangere- 577002, Karnataka	2024	Fluid mechanics	N
13.	Prateek Kattimani	Davangere University, Shivagangotri, Davangere- 577002, Karnataka	2024	Fluid mechanics	N

Research Publications:	
a) International Journals/ National Journals	
1.	A. U. Yahya, N. Salamat, S. Abdal, N. A. Shah, and **B. C. Prasannakumara**, "Nonlinear Fthermal radiative implication on micropolar casson hybrid nanofluid (TC4 + nichrome/kerosene oil) flow between parallel permeable plates," ZAMM Zeitschrift fur Angewandte Mathematik und Mechanik, vol. 105, no. 3, 2025, doi: 10.1002/zamm.202400792.
2.	R. S. Varun Kumar, B. Saleh, G. Sowmya, A. Afzal, B. C. Prasannakumara, and R. J. Punith Gowda, "Exploration of transient heat transfer through a moving plate with exponentially temperature-dependent thermal properties," Waves in Random and Complex Media, vol. 35, no. 2, pp. 3897–3915, 2025, doi: 10.1080/17455030.2022.2056256.
3.	R. S. Varun Kumar, K. Chandan, K. Venkadeshwaran, T. Muhammad, R. J. Punith Gowda, and **B. C. Prasannakumara**, "Influence of magnetic dipole on the hybrid nanofluid flow with chemical reactions due to the generated and absorbed heat," Pramana - Journal of Physics, vol. 99, no. 2, 2025, doi: 10.1007/s12043-025-02917-4.
4.	R. S. Varun Kumar, S. K. Abhilasha, V. R. Banakar, F. Gamaoun, and **B. C. Prasannakumara**, "Computational analysis of wetted triangular spine fin using Lerch polynomial collocation method," Applied Thermal Engineering, vol. 275, 2025, doi: 10.1016/j.applthermaleng.2025.126820.
5.	G. Sowmya, R. S. Varun Kumar, M. D. Alsulami, and **B. C. Prasannakumara**, "Thermal stress and temperature distribution of an annular fin with variable temperature-dependent

	thermal properties and magnetic field using DTM-Pade approximant," Waves in Random and Complex Media, vol. 35, no. 1, pp. 2054–2082, 2025, doi: 10.1080/17455030.2022.2039421.
6.	S. Li, R. Saadeh, J.K. Madhukesh, U. Khan, G.K. Ramesh, A. Zaib, **B.C. Prasannakumara**, R. Kumar, A. Ishak, E.-S.M. Sherif, "Aspects of an induced magnetic field utilization for heat and mass transfer ferromagnetic hybrid nanofluid flow driven by pollutant concentration," Case Studies in Thermal Engineering, vol. 53, 2024, doi: 10.1016/j.csite.2023.103892.
7.	K. Karthik, P. Srilatha, J.K. Madhukesh, U. Khan, **B.C. Prasannakumara**, R. Kumar, A. Ishak, S.M. Hussain, T. Muhammad, M.M.M. Abdou ,"Computational examination of heat and mass transfer of nanofluid flow across an inclined cylinder with endothermic/exothermic chemical reaction," Case Studies in Thermal Engineering, vol. 57, 2024, doi: 10.1016/j.csite.2024.104336.
8.	K. Zhang, Y. Li, M. Alshehri, N. A. Shah, and **B. C. Prasannakumara**, "Cross-diffusion and heat transfer effects on peristaltic flow of Reiner-Philippoff nanofluid with pseudoplastic and dilatant fluids over tapered channel: Multiple solutions and stability analysis," Case Studies in Thermal Engineering, vol. 59, 2024, doi: 10.1016/j.csite.2024.104548.
9.	Madhu. J, Karthik. K, Varun Kumar R. S, Punith Gowda R. J, Naveen Kumar R, and **Prasannakumara B.C**, "Dynamics of pollutant dispersion and solid–fluid interfacial layer in Jeffrey nanofluid flow subjected to waste discharge concentration: Implementation of probabilists' Hermite polynomial collocation method," Numerical Heat Transfer; Part A: Applications, 2024, doi: 10.1080/10407782.2024.2319349.
10.	P. G. R. Jayadevamurthy, N. K. Rangaswamy, **B. C. Prasannakumara**, and K. S. Nisar, "Emphasis on unsteady dynamics of bioconvective hybrid nanofluid flow over an upward–downward moving rotating disk," Numerical Methods for Partial Differential Equations, vol. 40, no. 1, 2024, doi: 10.1002/num.22680.
11.	J. K. Madhukesh, **B. C. Prasannakumara**, S. A. Shehzad, M. I. Anwar, and S. Nasir, "Endothermic and exothermic chemical reactions' influences on a nanofluid flow across a permeable microchannel with a porous medium," International Journal of Ambient Energy, vol. 45, no. 1, 2024, doi: 10.1080/01430750.2024.2325515.
12.	H. Ashraf, N.A. Shah, M. Shahzadi, H. Ur Rehman, A. Ali, M.D. Kumar, C.S.K. Raju, A. Mennouni, N. Muhammad, A. Wakif, A. Walait, K. Ramesh, T. Oreyeni, **B.C. Prasannakumara**,"Film lifting and drainage of third-grade °uid on a vertical belt with surface tension," Modern Physics Letters B, 2024, doi: 10.1142/S0217984924502981.
13.	J.K. Madhukesh, S.O. Paramesh, G.D. Prasanna, **B.C. Prasannakumara**, M.I. Khan, S. Abdullaev, G. Rasool,, "Impact of magnetized nanoparticle aggregation over a Riga plate with thermal radiation in water-Al2O3 based nanofluid flow," ZAMM Zeitschrift fur Angewandte Mathematik und Mechanik, 2024, doi: 10.1002/zamm.202300270.
14.	K. Karthik, J. K. Madhukesh, S. Kiran, K. V. Nagaraja, **B. C. Prasannakumara**, and G. Fehmi, "Impacts of thermophoretic deposition and thermal radiation on heat and mass transfer analysis of ternary nanofluid flow across a wedge," International Journal of Modelling and Simulation, 2024, doi: 10.1080/02286203.2023.2298234.
15.	J. Madhu, J.K. Madhukesh, I. Sarris, **B.C. Prasannakumara**, G.K. Ramesh, N.A. Shah, B. Ali, C.S.K. Raju, A. Wakif, N. Muhammad, H. Ashraf, "Influence of quadratic thermal radiation and activation energy impacts over oblique stagnation point hybrid nanofluid flow across a cylinder," Case Studies in Thermal Engineering, vol. 60, 2024, doi: 10.1016/j.csite.2024.104624.

16.	S.B. Prakash, K. Chandan, K. Karthik, S. Devanathan, R.S.V. Kumar, K.V. Nagaraja, **B.C. Prasannakumara**., "Investigation of the thermal analysis of a wavy fin with radiation impact: an application of extreme learning machine," Physica Scripta, vol. 99, no. 1, 2024, doi: 10.1088/1402-4896/ad131f.
17.	D. Bai, N. Muhammad, N.A. Shah, B. Ali, C.S.K. Raju, A. Wakif, G.K. Ramesh, S.F. Ahmed, J.K. Madhukesh, J. Madhu, **B.C. Prasannakumara**, I. Sarris, "OpenFOAM simulation of turbulent flow in a complex dam structure," Indian Journal of Physics, vol. 98, no. 9, pp. 3277–3286, 2024, doi: 10.1007/s12648-024-03085-8.
18.	D.O. Soumya, P. Venkatesh, P. Srilatha, J.S. Chohan, **B.C. Prasannakumara**, M. Alshehri, N.A. Shah, "Significance of TiO2- water nanofluid, buoyant strength and ohmic heating in the enhancement of microchannel efficiency," Case Studies in Thermal Engineering, vol. 60, 2024, doi: 10.1016/j.csite.2024.104605.
19.	V. Singh, N. B. Naduvinamani, K. Vinutha, **B. C. Prasannakumara**, J. K. Madhukesh, and A. Abdulrahman, "Sodium alginate-based MHD ternary nanofluid flow across a cone and wedge with exothermic/endothermic chemical reactions: A numerical study," Numerical
20.	J. K. Madhukesh, F. Sahar, **B. C. Prasannakumara**, and S. A. Shehzad, "Waste discharge concentration and quadratic thermal radiation influences on time-dependent nanofluid flow over a porous rotating sphere," Numerical Heat Transfer, Part B: Fundamentals, 2024, doi: 10.1080/10407790.2024.2336205.
21.	P. Srilatha, R. V. Kumar, R. N. Kumar, R. P. Gowda, A. Abdulrahman, and **B. C. Prasannakumara**, "Impact of solid-fluid interfacial layer and nanoparticle diameter on Maxwell nanofluid flow subjected to variable thermal conductivity and uniform magnetic field," Heliyon, vol. 9, no. 11, 2023, Accessed: Dec. 16, 2023. [Online]. Available: https://www.cell.com/heliyon/pdf/S2405-8440(23)08397-4.pdf
22.	J. Madhu, K. Vinutha, R.N. Kumar, R.J.P. Gowda, **B.C. Prasannakumara**, A.S. Alqahtani, M.Y. Malik, "Impact of solid–liquid interfacial layer in the nanofluid flow between stretching stationary disk and a rotating cone," Tribology International, vol. 192, p. 109187, Apr. 2024, doi: 10.1016/j.triboint.2023.109187.
23.	R. P. Sharma, J. K. Madhukesh, S. Shukla, F. Gamaoun, and **B. C. Prasannakumara**, "Numerical study of the thermophoretic velocity of ternary hybrid nanofluid in a microchannel bounded by the two parallel permeable flat plates," J Therm Anal Calorim, Nov. 2023, doi: 10.1007/s10973-023-12691-3.
24.	J. K. Madhukesh, K. V. Nagaraja, F. Gamaoun, and **B. C. Prasannakumara**, "Impacts of nanoparticle aggregation and thermophoretic particle deposition on the flow of nanofluid over Riga wedge: a mathematical analysis," J Therm Anal Calorim, Nov. 2023, doi: 10.1007/s10973-023-12596-1.
25.	**B. C. Prasannakumara**, J. K. Madhukesh, and G. K. Ramesh, "Bioconvective nanofluid flow over an exponential stretched sheet with thermophoretic particle deposition," Propulsion and Power Research, 2023.
26.	J. Madhu, J. Baili, R. N. Kumar, **B. C. Prasannakumara**, and R. J. P. Gowda, "Multilayer neural networks for studying three-dimensional flow of non-Newtonian fluid flow with the impact of magnetic dipole and gyrotactic microorganisms," Phys. Scr., vol. 98, no. 11, p. 115228, Oct. 2023, doi: 10.1088/1402-4896/acfe5e.
27.	S.M. Hussain, R. Mahat, N.M. Katbar, I. Ullah, R.S. Varun Kumar, **B.C. Prasannakumara**, W. Jamshed, M.R. Eid, W.A. Khan, Usman, R.W. Ibrahim, S.M. El Din "Artificial neural network modeling of mixed convection viscoelastic hybrid nanofluid across a circular

	cylinder with radiation effect: Case study," Case Studies in Thermal Engineering, vol. 50, p. 103487, Oct. 2023, doi: 10.1016/j.csite.2023.103487.
28.	M. D. Alsulami, A. Abdulrahman, R. N. Kumar, R. J. Punith Gowda, and **B. C. Prasannakumara**, "Three-Dimensional Swirling Flow of Nanofluid with Nanoparticle Aggregation Kinematics Using Modified Krieger–Dougherty and Maxwell–Bruggeman Models: A Finite Element Solution," Mathematics, vol. 11, no. 9, p. 2081, 2023.
29.	K.V. Nagaraja, U. Khan, J.K. Madhukesh, A.M. Hassan, **B.C. Prasannakumara**, N. Ben Kahla, S. Elattar, J. Singh Chohan, "Heat and mass transfer analysis of assisting and opposing radiative flow conveying ternary hybrid nanofluid over an exponentially stretching surface," Sci Rep, vol. 13, no. 1, Art. no. 1, Sep. 2023, doi: 10.1038/s41598-023-41916-6.
30.	J. K. Madhukesh, I. E. Sarris, V. K, **B. C. Prasannakumara**, and A. Abdulrahman, "Computational analysis of ternary nanofluid flow in a microchannel with nonuniform heat source/sink and waste discharge concentration," Numerical Heat Transfer, Part A: Applications, vol. 0, no. 0, pp. 1–18, Aug. 2023, doi: 10.1080/10407782.2023.2240509.
31.	E.A. Algehyne, S.A.M. Abdelmohsen, R.J.P. Gowda, R.N. Kumar, A.M.M. Abdelbacki, M.R. Gorji, **B.C. Prasannakumara**, "Mathematical modeling of magnetic dipole effect on convective heat transfer in Maxwell nanofluid flow: single and multi-walled carbon nanotubes," Waves in Random and Complex Media, vol. 33, no. 2, pp. 489–504, Mar. 2023, doi: 10.1080/17455030.2022.2125598.
32.	R. S. Varun Kumar, I. E. Sarris, G. Sowmya, **B. C. Prasannakumara**, and A. Verma, "Artificial neural network modeling for predicting the transient thermal distribution in a stretching/shrinking longitudinal fin," ASME Journal of Heat and Mass Transfer, vol. 145, no. 8, p. 083301, 2023.
33.	K.C. Jagadeesha, R.S.V. Kumar, G. Sowmya, **B.C. Prasannakumara**, M.I. Khan, K. Guedri, M. Jameel, A.M. Galal, "Physical significance of rectangular and hyperbolic annular fin with radiation, convection and nonlinear variable properties," Int. J. Mod. Phys. B, vol. 37, no. 03, p. 2350029, Jan. 2023, doi: 10.1142/S0217979223500297.
34.	M.I. Khan, M. Shoaib, G. Zubair, R.N. Kumar, **B.C. Prasannakumara**, A.A.A. Mousa, M.Y. Malik, M.A.Z. Raja, "Neural artificial networking for nonlinear Darcy–Forchheimer nanofluidic slip flow," Appl Nanosci, vol. 13, no. 6, pp. 3767–3786, Jun. 2023, doi: 10.1007/s13204-022-02528-0.
35.	R. N. Kumar, **B. C. Prasannakumara**, and R. J. P. Gowda, "Impact of diffusion-thermo and thermal-diffusion on the flow of Walters-B fluid over a sheet saturated in a porous medium using local thermal non-equilibrium condition," STRPM, doi: 10.1615/SpecialTopicsRevPorousMedia.2023045844.
36.	R. N. Kumar, **B. C. Prasannakumara**, and R. P. Gowda, "LOCAL THERMAL NON-EQUILIBRIUM CONDITION FOR THE FLOW OF WALTERS-B FLUID OVER A SHEET SATURATED IN A POROUS MEDIUM".
37.	R. S. V. Kumar, K. C. Jagadeesha, and **B. C. Prasannakumara,** "Heat transfer and thermal analysis in a semi-spherical fin with temperature-variant thermal properties: an application of Probabilists' Hermite collocation method," Waves in Random and Complex Media, pp. 1–21, Apr. 2023, doi: 10.1080/17455030.2023.2198031.
38.	S. Li, R. Saadeh, J.K. Madhukesh, U. Khan, G.K. Ramesh, A. Zaib, **B.C. Prasannakumara**, R. Kumar, A. Ishak, E.-S.M. Sherif, "Aspects of an induced magnetic field utilization for heat and mass transfer ferromagnetic hybrid nanofluid flow driven by pollutant

	concentration," Case Studies in Thermal Engineering, vol. 53, p. 103892, Jan. 2024, doi: 10.1016/j.csite.2023.103892.
39.	G. T. PREETHI, **B. C. PRASANNAKUMARA**, N. MAGESH, and A. J. CHRISTOPHER, "MULTI-STEP DIFFERENTIAL TRANSFORM METHOD FOR SOLVING THE EPIDEMIC MODEL WITH PINE WILT DISEASE.," Transactions of A. Razmadze Mathematical Institute, vol. 177, no. 1, 2023.
40.	B. M. Shankaralingappa, B. J. Gireesha, **B. C. Prasannakumara**, and B. Nagaraja, "Darcy-Forchheimer flow of dusty tangent hyperbolic fluid over a stretching sheet with Cattaneo-Christov heat flux," Waves in Random and Complex Media, vol. 33, no. 3, pp. 742–761, 2023.
41.	S. Shukla, R. P. Sharma, R. J. Punith Gowda, and **B. C. Prasannakumara**, "Elastic deformation effect on carboxymethyl cellulose water-based (TiO2–Ti6Al4V) hybrid nanoliquid over a stretching sheet with an induced magnetic field," Numerical Heat Transfer, Part A: Applications, pp. 1–15, 2023.
42.	P. Srilatha, S. Remidi, M. Nagapavani, H. Singh, **B.C. Prasannakumara**, "Heat and Mass Transfer Analysis of a Fluid Flow across the Conical Gap of a Cone-Disk Apparatus under the Thermophoretic Particles Motion," Energies, vol. 16, no. 2, Art. no. 2, Jan. 2023, doi: 10.3390/en16020952.
43.	R.J. Punith Gowda, R. Naveen Kumar, R. Kumar, **B.C. Prasannakumara**, "Three-dimensional coupled flow and heat transfer in non-Newtonian magnetic nanofluid: An application of Cattaneo-Christov heat flux model," Journal of Magnetism and Magnetic Materials, vol. 567, p. 170329, 2023.
44.	A. Abbasi, S.U. Khan, W. Farooq, F.M. Mughal, M. Ijaz Khan, **B.C. Prasannakumara**, M.T. El-Wakad, K. Guedri, A.M. Galal, "Peristaltic flow of chemically reactive Ellis fluid through an asymmetric channel: Heat and mass transfer analysis," Ain Shams Engineering Journal, vol. 14, no. 1, p. 101832, 2023.
45.	K. Madhukar, R. Gangadhara Reddy, H.F.M. Ameen, G.S. Prasad, **B.C. Prasannakumara**, "Numerical study of the Poynting vector effect on periodically forced neutrally buoyant spherical particles at low Reynolds numbers — dynamics and rheology," Int. J. Mod. Phys. B, vol. 37, no. 24, p. 2350235, Sep. 2023, doi: 10.1142/S0217979223502351.
46.	R.P. Sharma, J.K. Madhukesh, S. Shukla, **B.C. Prasannakumara**, "Numerical and Levenberg–Marquardt backpropagation neural networks computation of ternary nanofluid flow across parallel plates with Nield boundary conditions," The European Physical Journal Plus, vol. 138, no. 1, p. 63, 2023.
47.	N.S. Malagi, P. Veeresha, G.D. Prasanna, **B.C. Prasannakumara**, D.G. Prakasha, "Novel approach for nonlinear time-fractional Sharma-Tasso-Olever equation using Elzaki transform," An International Journal of Optimization and Control: Theories & Applications (IJOCTA), vol. 13, no. 1, pp. 46–58, 2023.
48.	F. Gamaoun, N. Manjunatha, Yellamma, R. Sumithra, R. Kumar, **B.C. Prasannakumara**, "Non-Darcian Triple diffusive convection in a combined layer with heat source/sink," International Journal of Modern Physics B, p. 2350283, 2023.
49.	R.J.P. Gowda, R.N. Kumar, A. Rauf, **B.C. Prasannakumara**, S.A. Shehzad, "Magnetized flow of sutterby nanofluid through cattaneo-christov theory of heat diffusion and stefan blowing condition," Applied Nanoscience, vol. 13, no. 1, pp. 585–594, 2023.

50.	J.K. Madhukesh, I.E. Sarris, **B.C. Prasannakumara**, A. Abdulrahman, "Investigation of thermal performance of ternary hybrid nanofluid flow in a permeable inclined cylinder/plate," Energies, vol. 16, no. 6, p. 2630, 2023.
51.	S. Ullah Khan, A. Raza, **B.C. Prasannakumara**, Y.D. Reddy, M.I. Khan, "Inspecting heat transport phenomenon in the flow of non-Newtonian fluid in the presence of Newtonian heating and inclined slip: fractional derivative framework," Waves in Random and Complex Media, pp. 1–12, 2023.
52.	K.K. Asogwa, H. Singh Gill, **B.C. Prasannakumara**, J.K. Madhukesh, "Effect of thermophoretic particle deposition on the three-dimensional flow of nanofluid induced by a nonlinear stretched surface," Waves in Random and Complex Media, pp. 1–17, 2023.
53.	W. Weera, R.S. Varun Kumar, G. Sowmya, U. Khan, **B.C. Prasannakumara**, E.E. Mahmoud, I.S. Yahia, "Convective-radiative thermal investigation of a porous dovetail fin using spectral collocation method," Ain Shams Engineering Journal, vol. 14, no. 1, p. 101811, 2023.
54.	R.S. Varun Kumar, M.D. Alsulami, I.E. Sarris, **B.C. Prasannakumara**, S. Rana, "Backpropagated neural network modeling for the non-fourier thermal analysis of a moving plate," Mathematics, vol. 11, no. 2, p. 438, 2023.
55.	J.K. Madhukesh, G.K. Ramesh, **B.C. Prasannakumara**, "Convective thermal conditions and the thermophoretic effect's impacts on a hybrid nanofluid over a moving thin needle," Numerical Methods for Partial Differential Equations, vol. 39, no. 2, pp. 1163–1184, 2023, doi: 10.1002/num.22928.
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2. UGC, CSIR and INSA. Sponsored National Conference on GEOMETRY, ANALYSIS AND FLUID MECHANICS, 22-23, September 2013.
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