

FACULTY MEMBER ACADEMIC PROFILE

1. **Name of the Faculty Member:** DR. KALIDAS DAS
2. **Designation:** Associated Professor in Mathematics, W.B.E.S.
3. **Present Affiliation:** Krishnagar Government College
4. **Qualification:** M. Sc (K.U.), Ph. D. (K.U.)
5. **Specialization:** Solid Mechanics.
6. **E-mail address:** kd.kgec@gmail.com
7. **Date of Joining in W.B.E.S.:** 07. 08. 2001
8. **Date of Joining in this College:** 18. 09. 2018
9. **Total Teaching experience in College Level:** 25 years
10. **Research Interest:** Fluid Mechanics (M.H.D., C.F.D.), Nanofluid, Bio-Mechanics
11. **Title of Thesis (Ph. D) with year:** “Studies on some problems in Magnetohydrodynamics,” 1997
12. **Research Guidance (Ph.D):** No. of student enrolled-10 (Degree awarded: 09)



Sl. No.	Candidate's Name	Date of Registration with Index No.	Title of Thesis	Name of University	Remarks
1.	Dr. Subhrojyoti Debnath	11.08.2006 Ph.D./Math./SD/2013	Some Mathematical Models on Biofluid Mechanics	University of Kalyani, Kalyani, India	Awarded on 12.06.13
2.	Dr. Subrata Jana	22.10.2011 Index no. 198/11/Maths/21	On Some mathematical Problems in Magneto hydrodynamics with Applications in Engineering	Jadavpur University, Kolkata, India	Awarded on 13.05.15
3.	Dr. Nilangshu Acharya	27.12.2013 Index no. 229/13/Maths/22	Some aspects on the motion of electrically conducting fluid	Jadavpur University, Kolkata, India	Awarded on 22.07.16
4.	Dr. Pinaki Ranjan Duari	23.09.2013 Index no. 180/13/Maths/22	Some mathematical models on nanofluid flow	Jadavpur University, Kolkata, India	Awarded on 25.11.16
5.	Dr. Tanmoy Chakraborty	16.10.2015 Index no. 209/15/Maths/24	Some aspects on nanofluid flows	Jadavpur University, Kolkata, India	Awarded on 09.04.19

6	Md. Tausif Sk	29.06.16 Index no. 118/16/Maths/24	Numerical Simulation of Conducting Nanofluid Flow	Jadavpur University, Kolkata, India	Awarded on 17.12.20
7	Shri Nilankush Acharya	21.06.16 Index no. 116/16/Maths/24	On Boundary Layer Flow of Conducting Nanofluid	Jadavpur University, Kolkata, India	Awarded on 19.12.20
8	Sri Amit Sarkar	18.04.2016 Index no. 44/16/Maths/24	Aspects on Boundary Layer Flow of Electrically Conducting Nanofluid	Jadavpur University, Kolkata, India	Awarded on 12.05.22
9	Shri Shib Sanakr Giri	26.04.17 Index no. 11/17/Maths/25	A Study capturing the Features of Magnetohydrodynamic Nanofluid Flow	Jadavpur University, Kolkata, India	Awarded on 16.05.22
10	Shri Bikash Sutradhar	06.05.24 Index no. 201/22/Maths/28	Features of Nanofluid Flow: Mathematical Modelling Sketch-out	Jadavpur University, Kolkata, India	Continue

13. Research Project : Completed-01

Title of the Project: Lie group analysis of nanofluid flow over a stretching surface in presence of magnetic field, Funding Agency: UGC (Minor research project), Period: 2 years (2015-17), Grant/Amount Mobilized: Rs. 2,70,000.

14. List of Publications:

A. Published Papers in Journals:

1. N. Acharya, P. R. Duari, S.S.Giri & K. Das, Impact of porosity and permeability variations on Darcy–Forchheimer hybrid nano-fluid flow over a rotating disk with activation-energy, Journal of Applied Mathematics and Mechanics: ZAMM (Wiley-VCH Verlag), DOI: 10.1002/zamm.70337 (2026), I.F.-1.603 (SCI)
2. D. Gorai & K. Das, Melting Phenomena in Convective Systems: A Comparative RSM Insight into Nanofluid Dynamics with Exponential Heat Source and Thermal Radiation, Int. J. Appl. Comput. Math. ([Springer](#)), doi.org/10.1007/s40819-026-02091-0 (2026), **I.F.-0.372 (SCI)**
3. N. Acharya, P. R. Duari, S.S.Giri & K. Das, Framing the features of electro-osmosis modulated EMHD Casson fluid flow over stretchy surface: effect of non-linear thermal radiation and multifarious slip, International Journal of Ambient Energy ([Taylor & Francis](#)), 47 (1), 2609590 (2026), I.F.-2.326 (SCI)

4. D. Gorai & K. Das, Influence of magneto-thermal dynamics on energy and mass transport in bioconvective nanofluid flow over a spinning disk surface, *Zeitschrift für Naturforschung A: Journal of Physical Sciences* (**Walter de Gruyter GmbH**), 81 (2), (2026), **I.F.-1.3 (SCI)**
5. B. Sutradhar, K. Das & P. K. Kundu, Numerical study of higher-order chemical reactions and the Dufour–Soret effect on radiative hybrid nanofluid flow over a stretching curved surface, *Canadian Journal of Physics* (**Elsevier**), 103 (7), 607-622 (2025), **I.F.-1.28 (SCI)**
6. D. Gorai, P. R. Duari & K. Das, Influence of variable characteristic of the porous medium on unsteady nanofluid flow with melting heat transference, *Numerical Heat Transfer, Part A: Applications* (**Taylor & Francis**), 85(5) 702-718 (2024), **I.F.-2.569 (SCIE)**
7. B. Sutradhar, K. Das & P. K. Kundu, Active-passive controls of rotating tri-hybrid nanofluid flow with gyrotactic microorganisms over a stretching bidirectional sheet, *Journal of Applied Mathematics and Mechanics: ZAMM* (**Wiley-VCH Verlag**), 105 (10), e70258 (2025), **I.F.-1.603 (SCI)**
8. P. R. Duari & K. Das, Revealing the dynamic response of Prandtl–Eyring’s ternary hybrid nanofluidic flow with Arrhenius activation energy: A model incorporating correlation coefficients and probable errors, *Journal of Applied Mathematics and Mechanics: ZAMM* (**Wiley-VCH Verlag**), 105 (5), e70024 (2025), **I.F.-1.603 (SCI)**
9. K.Das, Computational analysis on magneto hybrid nanofluid flow with water as base fluid and nanoparticles as aluminium oxide (Al₂O₃) and copper (Cu) induced by a convectively heated stretching sheet in presence of surface slip, *Waves in Random and Complex Media* (**Taylor & Francis**), doi.org/10.1080/17455030.2023.2193849, **I.F.-4.051 (SCIE)**
10. K. Das, P. K. Kundu & B. Sutradhar, Computational study of Darcy-Forchheimer Prandtl–Eyring nanofluid flow model with second-order slip condition, *International Journal of Ambient Energy* (**Taylor & Francis**), 46 (1), 2533383 (2025), **I.F.-2.326 (SCI)**
11. P.R.Duari & K.Das, Computational outline on heat transfer analysis and entropy generation in hydromagnetic squeezing slip flow of hybrid nanofluid, *Multidiscipline Modeling in Materials and Structures* (**Emerald Publishing Limited**), 20(6), 1402-1424 (2024), **I.F.- 0.59 (SCIE)**.
12. B. Sutradhar, K. Das & P. K. Kundu, Outlining the impact of electro-osmotic force and mixed convection flow of EMHD nanofluid flow on the stretched cylinder: a computational layout, *Zeitschrift für Naturforschung A: Journal of Physical Sciences* (**Walter de Gruyter GmbH**), 80 (2), 143-159 (2024), **I.F.-1.3 (SCI)**

13. P.R.Duari & K.Das, MHD radiating flow in a Hybrid Solution of C₂H₆O₂-H₂O to disperse Ag-Al₂O₃ Hybrid Nanoparticles taking into account the effects of Nanoparticle shapes, *Indian Journal of Physics*, (**Springer**), 99, 157-169 (2025), **I.F.-2.0 (SCI)**
14. K.Das & P.R.Duari, Effects of nanoparticle shape factor on radiative ternary hybrid nanofluid flow over a wedge in presence of induced magnetic field, *Multidiscipline Modeling in Materials and Structures* (**Emerald Publishing Limited**), 20(3), 486-509 (2024), **I.F.- 0.59 (SCIE)**.
15. K. Das, B. Sutradhar & P. K. Kundu, Impact of nonlinear radiation on an unsteady magneto hybrid nanofluid flow over an upward/downward rotating disk, *Numerical Heat Transfer, Part A: Applications* (**Taylor & Francis**), 85 (16), 2664-2681 (2024), **I.F.-2.569 (SCIE)**
16. K. Das, B. Sutradhar & P. K. Kundu, Framing the effects of multiple slips on squeezing flow of chemical reacting hybrid nanofluid between two parallel discs, *Journal of Nanofluids*, USA (**American Scientific Publishers**), 13, 1009-1020 (2024), **I.F.-1.739 (ESCI)**
17. P. R. Duari & K. Das, Active- passive controls on magneto CNTs nanofluid flow over a wavy rotating disc, *International Journal of Modelling and Simulation* (**Taylor & Francis**), 45(3), 1005-1020 (2025), **I.F.-3.1 (SCIE)**
18. A.Sarkar & K. Das, Magneto hybrid nanofluid flow with activation energy and chemical reaction through an impermeable stretching elastic cylinder, *International Journal of Modelling and Simulation* (Taylor & Francis), doi.org/10.1080/02286203.2023.2296264, **I.F.-3.1 (SCIE)**
19. S.S.Giri, N. Acharya, K. Das, Exploration of Hall current effect and multiple convections in a Darcy Forchheimer flow of hybrid nanofluid over rotating permeable disk: A Stefan blowing approach; *International Journal of Ambient Energy* (**Taylor & Francis**), 45 (1), 1-13, 2024, **I.F.-2.326 (SCI)**
20. N. Acharya & K. Das, Three-dimensional rotating flow of Cu–Al₂O₃/ kerosene oil hybrid nanofluid in presence of activation energy and thermal radiation, *Numerical Heat Transfer, Part A: Applications* (**Taylor & Francis**), 84 (6), 586-603, 2023, **I.F.-2.569 (SCIE)**
21. K.Das, R.P. Sharma, D. Gorai, Squeezing flow of chemical reacting hybrid nanofluid between two analogous disks with Activation energy and magnetic field, *Journal of Nanofluids*, USA (**American Scientific Publishers**) 12(2), 388–397 (2023), **I.F.-1.739 (ESCI)**
22. Md T. Sk, K. Das & P. K. Kundu, Electrical magneto hydrodynamic flow of graphene nanoplatelet-platinum/water hybrid nanofluid with entropy generation, *International Journal of Ambient Energy* (**Taylor & Francis**), 43(1), 6261-6272 (2022), **I.F.-2.326 (SCI)**

23. R.P. Sharma, K.Das, D. Gorai, Impact of multifarious slips on radiating nanofluid flow containing ZrO_2 nanoparticles, International Journal of Modern Physics B (World Scientific Publishers) Accepted, **I.F.-1.404 (SCI)**
24. K. Das, N. Acharya, Squeezing flow of Cu-TiO₂ / H₂O hybrid nanofluid with activation energy and chemical reaction in a Darcy-Forchheimer porous medium, International Journal of Ambient Energy (Taylor & Francis), 2022, 43(1), 8816-8829, **ISSN: 2162-8246, I.F.-2.326 (SCIE)**
25. R.P. Sharma, D. Gorai, K. Das, Comparative study on hybrid nanofluid flow of Ag-CuO/H₂O over a curved stretching surface with Soret and Dufour effects, Heat Transfer (Wiley Periodicals LLC), 2022;51:1-19, **(ISSN:2688-4542, ESCI)**
26. S.S.Giri, K.Das, P. K. Kundu, Computational analysis of thermal and mass transmit in a hydromagnetic hybrid nanofluid flow over a slippery curved surface, International Journal of Ambient Energy (Taylor & Francis), 43(1), 6062-6070 (2022), **I.F.-2.326 (SCI)**
27. K. Das, N. Acharya, P. K. Kundu, P. R. Duari, Magneto Chemically Reacting Micropolar Nanofluid Flow in Existence of Heat Source/Sink, Journal of Nanofluids, USA (American Scientific Publishers) 11(4), 539-547 (2022), **I.F.-1.739 (ESCI)**
28. Md T. Sk, K. Das & P. K. Kundu, Unsteady nanofluid flow between two spinning expanding disks with continuous vertical motion under the influence of modified Hall effect, Heat Transfer (Wiley Periodicals LLC), 2022;51:4286-4305, **(ISSN:2688-4542, ESCI)**
29. K. Das, N. Acharya, Md T. SK, P. R. Duari and T. Chakraborty, Slip flow of hybrid nanofluid in presence of solar radiation, International Journal of Modern Physics C, Singapore (World Scientific Publishing Co Pte Ltd), 33 (2) 2250017 (2022), **I.F.-1.176 (SCI)**
30. K. Das, P. K. Kundu, and Md T. Sk, Magnetophoretic Effect on the Nanofluid Flow Over Decelerating Spinning Sphere with the Presence of Induced Magnetic Field, Journal of Nanofluids, USA (American Scientific Publishers) 11(1), 135-141 (2022), **I.F.-1.739 (ESCI)**
31. K.Das, Towards an understanding of melting heat transfer on Cu-water nanofluid flow, Journal of Engineering Physics and Thermophysics, Germany (Springer), 95 (5), 1225-1231 (2022), **I.F.-0.711 (ESCI)**
32. K.Das, S.S.Giri, P. K.Kundu, Influence of Hall current effect on hybrid nanofluid flow over a slender stretching sheet with zero nanoparticle flux, Heat Transfer (Wiley Periodicals LLC) 2021;50:7232-7250, **(ISSN:2688-4542, ESCI)**

33. Md T. Sk, K. Das, P. K. Kundu, Modified Homogeneous and Heterogeneous Chemical Reaction on the Flow Performance of Maxwell Nanofluid with Cattaneo – Christov Heat Flux Law, Journal of Engineering Thermophysics, **Russia (Springer)**, 2022, 31 (1), 64-77, **I.F.-1.402 (ESCI)**
34. S.S.Giri, K.Das, P. K. Kundu, Influence of nanoparticle diameter and interfacial layer on magnetohydrodynamic nanofluid flow with melting heat transfer inside rotating channel, Mathematical Methods in the Applied Sciences, **Germany (John Wiley & Sons Ltd.)**, 2021, 44, 1161-1175, **I.F.-2.321 (SCI)**
35. K.Das, S.S.Giri, P. K. Kundu, Induced magnetic field and second order velocity slip effects on TiO₂-water/ethylene glycol nanofluids, Physica Scripta, **Sweden (IOP Publishing)**, 2020, 95(1), 015803 (1-11), **I.F.-1.985 (SCI)**
36. S.S.Giri, K.Das, P. K. Kundu, Homogeneous–heterogeneous reaction mechanism on MHD carbon nanotube flow over a stretching cylinder with prescribed heat flux using differential transform method, Journal of Computational Design and Engineering, **Oxford University Press**, 2020, 7(3), 337–351, **I.F.-1.352 (ESCI)**
37. R.P.Sharma, N. Acharya, K. Das, On the impact of variable thickness and melting transfer of heat on magnetohydrodynamics nanofluid flow past a slendering stretching sheet, Indian Journal of Geo Marine Sciences, **India (NISCAIR)**, 2020, 49(04), 641-648, **I.F.-0.40 (SCI)**
38. S.S.Giri, K.Das, P. K. Kundu, Heat conduction and mass transfer in a MHD nanofluid flow subject to generalized Fourier and Fick’s law, Mechanics of Advanced Materials and Structures, **Italy (Taylor & Francis)**, 2020, 27(20), 1765-1775, **I.F.-1.094 (SCIE)**
39. N. Acharya, K. Das, P.K.Kundu, Effects of Aggregation Kinetics on Nanoscale Colloidal Solution inside a Rotating Channel: A Thermal Framework, Journal of Thermal Analysis and Calorimetry, **Hungary (Springer)**, 2019, 138(1), 461-477, **I.F.-2.209 (SCI)**
40. S.S.Giri, K.Das, P. K. Kundu, Dynamics of nonuniform viscosity of unsteady CuO–H₂O nanofluid flow from a spinning body, Heat transfer-Asian Research, **Japan (Wiley)**, 2019, 48(6), 2542-2556, **I.F.-0.170 (SCI)**
41. T. Chakraborty, K. Das, P.K. Kundu, Multiple convection-driven Falkner-Skan flow of Carreau nanofluid along a permeable wedge: An analytical approach, Heat Transfer-Asian Research, **Japan (Wiley)**, 2019, 48(3), 914-937 (**ISSN:1523-1496, ESCI**)
42. F. Mabood, K. Das, Outlining the impact of melting on MHD Casson fluid flow past a stretching sheet in a porous medium with radiation, Heliyon, (**Elsevier**), 2019, 5, 1-17, (**ISSN: 2405-8440, ESCI**)

43. N. Acharya, K. Das, P. K. Kundu, Influence of Multiple slips and Chemical reaction on Radiative MHD Williamson nanofluid flow in porous medium: A Computational Framework, *Multidiscipline Modeling in Materials and Structures*, **China (Emerald)**, 2019, 15 (3), 630-658, **I.F.- 0.59 (ESCI)**.
44. K. Das, T. Chakraborty, P. K. Kundu Lie group transformation for double-diffusive free convection nanofluid flow over an inclined plane. *Proceedings of National Academy of Sciences Section A: Physical Sciences*, **India (Springer)**, 2019, 89 (2), 387-396, **I.F.-0.754 (SCI)**.
45. N. Acharya, K. Das, P. K. Kundu, On the Heat Transport Mechanism and Entropy Generation in a Nozzle of Liquid Rocket Engine using Ferrofluid (CoFe₂O₄): A Computational Framework, *Journal of Computational Design and Engineering*, **Korea (Elsevier)**, 2019, 6, 739-750, **I.F.-1.352 (ESCI)**
46. S.S.Giri, K.Das, P. K. Kundu, Inclined magnetic field effects on unsteady nanofluid flow and heat transfer in a finite thin film with non-uniform heat source/sink, *Multidiscipline Modeling in Materials and Structures*, **China (Emerald)**, 2019, 15 (1), 265-282, **I.F.- 0.59 (ESCI)**.
47. N.Acharya, S. Jana, K.Das, Impact of Transverse Magnetic Field Thermal Radiation on Non-darcy Forced Convection Flow, *Journal of Siberian Federal University. Mathematics & Physics* **Russia**, 2018, 11(1), 1–12, **I.F.-0.216**
48. S.S.Giri, K.Das, P. K. Kundu. Framing the features of a Darcy-Forchheimer nanofluid flow past a Riga plate with chemical reaction by HPM, *The European Physical Journal – Plus*, **Italy (Springer)**, 2018, 133, 365-382, **I.F.-1.302 (SCI)**
49. T. Chakraborty, K. Das, P. K. Kundu , Framing the impact of external magnetic field on Bioconvection of a nanofluid flow containing gyrotactic microorganisms with convective boundary conditions, *Alexandria Engineering Journal*, **Egypt (Elsevier)**, 2018, 57, 61-71. **I.F.-0.23 (ESCI)**
50. K. Das, N. Acharya, P. K. Kundu, Influence of variable fluid properties on nanofluid flow over a wedge with surface slip, *The Arabian Journal for Science and Engineering*, **Saudi Arabia (Springer)**, 2018, 43, 2119-2131, **I.F.- 1.092 (SCIE)**.
51. M. T. Sk, K. Das, P. K. Kundu, Consequences of nanoparticle diameter and solid–liquid interfacial layer on the SWCNT / EO nanofluid flow over various shaped thin slendering needles, *Chinese Journal of Physics*, **China (Elsevier)**, 2018, 56, 2439–2447, **I.F.-1.051 (SCI)**.
52. P. K. Kundu, T. Chakraborty, K. Das, Framing the Cattaneo-Christov heat flux phenomena on CNT based Maxwell nanofluid along stretching sheet with multiple slips, *The Arabian Journal*

- for Science and Engineering, **Saudi Arabia (Springer)**, 2018, 43 (3), 1177-1188. **I.F.-1.092 (SCIE)**
53. N. Acharya, K. Das, P. K. Kundu, Outlining the impact of second order slip and multiple convective conditions on nanofluid flow, Canadian Journal of Physics, **(Elsevier)** , 2017, 96 (1), 104-111, **I.F.-0.983 (SCI)**.
 54. K. Das, T. Chakraborty, P. K. Kundu , Effect of Magnetic Field on Oldroyd-B type nanofluid flow over a permeable stretching surface, Propulsion and Power Research, **China (Elsevier)**, 2018, 7(3), 238–246, **ISSN: 2212-540X**.
 55. N. Acharya, K. Das, P. K. Kundu, Rotating Flow of Carbon Nanotube over a Stretching Surface in Presence of Magnetic Field: A Comparative Study, Applied Nanoscience, **Saudi Arabia (Springer)**, 2018, 8 (3), 369-378, **I.F- 3.325 (SCIE)**.
 56. K. Das, M. T. Sk, P. K. Kundu Steady nanofluid flow with variable fluid possessions over a linearly extending surface: A Lie group exploration. Alexandria Engineering Journal, **Egypt (Elsevier)**, 2018, 57, 415–425, **I.F.-0.23 (ESCI)**
 57. K. Das, A.Sarkar, P. K. Kundu , Cu-water nanofluid flow induced by a vertical stretching sheet in presence of a magnetic field with convective heat transfer, Propulsion and Power Research, **China (Elsevier)**, 2017, 6(3), 206–213, **ISSN: 2212-540X**
 58. N. Acharya, K.Das, P. K. Kundu, Fabrication of active and passive controls of nanoparticles of unsteady nanofluid flow from a spinning body using HPM, The European Physical Journal – Plus, **Italy (Springer)**, 2017, 132, 323-343, **I.F.-2.240 (SCI)**.
 59. M. T. Sk, K. Das, P. K. Kundu, Presence of different shapes of ZrO₂ nanoparticles in the melting heat transfer of a Casson flow, The European Physical Journal – Plus, **Italy (Springer)**, 2017, 132, 425-439, **I.F.-1.302 (SCI)**.
 60. T. Chakraborty, K. Das, P. K. Kundu, Analytical exploration of TiO₂ - nanofluid along rotating disk with homogeneous-heterogeneous chemical reactions and non-uniform heat source/sink, The European Physical Journal Plus, **Italy (Springer)**, 2017, 132, 555-576, **I. F.- 2.240 (SCI)**.
 61. K.Das, P.R.Duari, Micropolar Nanofluid Flow Over an Stretching Sheet with Chemical Reaction, International Journal of Applied and Computational Mathematics, **India (Springer)**, 2017, 3(4), 3229–3239, **ISSN 2349-5103**.
 62. N. Acharya, K.Das, P. K. Kundu, Cattaneo–Christov intensity of magnetised upper-convected Maxwell nanofluid flow over an inclined stretching sheet: A generalised Fourier and Fick’s

- perspective, International Journal of Mechanical Sciences, **UK (Elsevier)**, 2017, 130, 167-173, **I.F.-3.570 (SCI)**
63. K. Das, R.P. Sharma, P. R. Duari, Hydromagnetic rarefied fluid flow over a wedge in the presence of surface slip and thermal radiation, International Journal of Applied Mechanics and Engineering, 2017, 22(4), 827-837, **Poland**, 2016, 2, 5-20 **I.F.-0.16**
64. T. Chakraborty, K. Das, P. K. Kundu, Ag-water nanofluid flow over an inclined porous plate embedded in a non-Darcy porous medium due to solar radiation, Journal of Mechanical Science and Technology, **Korea (Springer)**, 2017, 31 (5), 2443-2449, **I.F.-1.194 (SCI)**
65. K. Das, N. Acharya, P. K. Kundu. Thin film flow over an unsteady stretching sheet with thermocapillarity in presence of magnetic fields. Thermal Science, **Serbia**, 2017, 21(6A), 2369-2378, **I.F.-1.431 (SCI)**
66. T. Chakraborty, K. Das, P. K. Kundu, Analytical approach to a Jeffrey nanofluid flow towards a Stagnation point coexisting with Magnetic field and Melting heat effects, Journal of Molecular Liquids, **Netherlands (Elsevier)**, 2017, 229, 443-452, **I.F.-4.513 (SCI)**
67. K. Das, A.Sarkar, P. K. Kundu, Nanofluid flow over a stretching surface in presence of chemical reaction and thermal radiation: An application of Lie group transformation, Journal of Siberian Federal University. Mathematics & Physics, **Russia**, 2017, 10(2), 146-157
68. S.S.Giri, K.Das, P. K. Kundu. Stefan blowing effects on MHD bioconvection flow of nanofluid in presence of gyrotactic microorganism with active and passive nanoparticles flux, The European Physical Journal – Plus, **Italy (Springer)**, 2017, 132, 101-14, **I.F.-1.302 (SCI)**
69. K.Das, N.Acharya, P.R.Duari, Forced convective flow over a porous plate with variable Fluid properties and chemical reaction: an application of the Lie group transformation, Moldavian Journal of Physical Sciences, **Moldavia**, 2017, 16(2), 46-63, **ISSN 1810-648X**
70. K. Das, N.Acharya, P. K. Kundu, Radiative nanofluid flow over a heated stretching surface in presence of magnetic field, Acta Technica., **Czech Republic**, 2017, 62(1), 41-52, **ISSN: 0001-7043**
71. K.Das, P.R.Duari, Cu-water and Ag-water nanofluids flow over a stretching surface in presence of magnetic field, Acta Technica, **Czech Republic**, 2017, 62(1), 27-40, **ISSN: 0001-7043**
72. N.Acharya, K. Das, P. K. Kundu Framing the features of MHD boundary layer flow past an unsteady stretching cylinder in presence of non-uniform heat source., Journal of Molecular Liquids, **Netherlands (Elsevier)**, 2017, 225, 418-425, **I.F.-4.513 (SCI)**

73. F. Mabood and K. Das. Melting heat transfer on hydromagnetic flow of a nanofluid over a stretching sheet with radiation and second-order slip. *The European Physical Journal – Plus*, **Italy (Springer)**, 2016, 131: 3-15, **I.F.-1.302 (SCI)**
74. A. Sarkar, K. Das, P. K. Kundu, On the onset of bioconvection in nanofluid containing gyrotactic microorganisms and nanoparticles saturating a non-Darcian porous medium, *Journal of Molecular Liquids*, **Netherlands (Elsevier)**, 2016, 223, 725-733, **I.F.-2.74 (SCI)**.
75. K. Das, T. Chakraborty, P. K. Kundu, Slip effects on nanofluid flow over a non-linear permeable stretching surface with chemical reaction. *Journal of Mechanical Engineering Science*, **UK (SAGE)**, 2016, 230, 2473-2482, **I.F.-1.302 (SCI)**
76. T. Sk, K. Das, P. K. Kundu. Multiple slip effects on bioconvection of nanofluid flow containing gyrotactic microorganisms and nanoparticles, *Journal of Molecular Liquids*, **Netherlands (Elsevier)**, 2016, 220, 518–526, **I.F.-2.74 (SCI)**
77. K. Das, N. Acharya, P. K. Kundu, The onset of nanofluid flow past a convectively heated shrinking sheet in presence of heat source/sink: A Lie group approach, *Applied Thermal Engineering*, **UK (Elsevier)**, 2016, 103, 38–46, **I.F.-3.043 (SCI)**
78. T. Sk, K. Das, P. K. Kundu, Effect of magnetic field on slip flow of nanofluid induced by a non-linear permeable stretching surface, *Applied Thermal Engineering*, **UK (Elsevier)**, 2016, 104 (2016) 758–766, **I.F.-3.043 (SCI)** .
79. K. Das, N. Acharya, P. K. Kundu, Framing the effects of solar radiation on magneto-hydrodynamics bioconvection nanofluid flow in presence of gyrotactic microorganisms, *Journal of Molecular Liquids*, **Netherlands (Elsevier)**, 2016, 222, 28–37, **I.F.-2.74 (SCI)**
80. K. Das, N. Acharya, P. K. Kundu, Effect of thermal radiation on MHD boundary-layer flow of a perfectly conducting fluid, *Heat transfer research*, **Russia (Begell House Pub Inc)**, 2016, 47, 529-543, **I.F.-0.84 (SCI)**
81. N. Acharya, K. Das, P. K. Kundu, The squeezing flow of Cu-water and Cu-kerosene nanofluids between two parallel plates, *Alexandria Engineering Journal*, **Egypt (Elsevier)**, 2016, 55, 1177–1186, **I.F.-0.436 (SCI)**.
82. K. Das, S.Jana, N. Acharya, Slip effects on squeezing flow of nanofluid between two parallel disks, *International Journal of Applied Mechanics and Engineering*, **Poland**, 2016, 2, 5-20 **I.F.-0.16**

83. K. Das, P. R. Duari, P. K. Kundu, Effects of magnetic field on an unsteady mixed convection flow of nanofluids containing spherical and cylindrical nanoparticles, *Journal of Heat Transfer*, **USA (ASME)**, 2016, 138, 061901-1, **I.F.-1.788 (SCI)**
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B. Published Books:

Sl. No.	Title of the Book	Type of the Book & Authorship	Publisher & ISSN/ISBN No.	No. of co-authors
1.	A Text Book of Numerical Analysis	Text Book Joint Authorship	U. N. Dhur and Sons Pvt. Ltd., Kolkata; 978-93-80673-65-3	One
2.	Hydrostatics	Text Book Joint Authorship	U. N. Dhur and Sons Pvt. Ltd., Kolkata; 978-93-80673-33-2	One
3.	Linear Programming and Game Theory	Text Book Joint Authorship	U. N. Dhur and Sons Pvt. Ltd., Kolkata; 978-93-80673-73-8	One
4.	Numerical Methods (Theoretical and Practical)	Text Book Sole author	U. N. Dhur and Sons Pvt. Ltd., Kolkata; 978-93-80673-46-2	Nil
5.	Engineering Mathematics Vol. I-IV	Text Book Joint Authorship	U. N. Dhur and Sons Pvt. Ltd., Kolkata; 978-93-80673-16-5	One
6.	B.C.A. Mathematics Vol. I-IV	Text Book Joint Authorship	U. N. Dhur and Sons Pvt. Ltd., Kolkata; 978-93-80673-34-9	One
7.	B.B.A Mathematics Vol. I, II	Text Book Joint Authorship	U. N. Dhur and Sons Pvt. Ltd., Kolkata; 978-93-80673-07-3	One
8.	Discrete Mathematics	Text Book Joint Authorship	U. N. Dhur and Sons Pvt. Ltd., Kolkata; 978-93-80673-74-5	One

C. Chapter Contributed in Edited Books:

1. K.Das: **Nanotechnology: Properties of Nanomaterials**, Chapter Title: “A Mathematical Model on Nanofluid Flow and Heat Transfer Characteristics,” Vol. 3, Chapter-8, Page. nos. 205-221, Publisher: **Studium Press LLC, Houston**, TX 77072-USA, 1-62699-000-X
2. K. Das & Tausif Sk: **Advanced Materials-Based Fluids for Thermal Systems**, Chapter Title: “Entropy optimization of magnetic nanofluid flow over a wedge under the influence of magnetophoresis,” Chapter-9, Page. nos. 209-232, Publisher: **Elsevier**, ISBN: 978-0-443-21576-6
3. K. Das, S. S. Giri & N. Acharya: **Advanced Materials-Based Fluids for Thermal Systems**, Chapter Title: “ Non-axisymmetric homann stagnation-point flow of nanofluid toward a flat

- surface in the presence of nanoparticle diameter and solid-liquid interfacial layer,” Chapter-10, Page. nos. 233-254, Publisher: **Elsevier**, ISBN: 978-0-443-21576-6
4. N. Acharya & K. Das: **Advanced Materials-Based Fluids for Thermal Systems**, Chapter Title: “On the hydrothermal performance of radiative Ag-MgO-water hybrid nanofluid over a slippery revolving disk in the presence of highly oscillating magnetic field,” Chapter-11, Page. nos. 255-288, Publisher: **Elsevier**, ISBN: 978-0-443-21576-6
 5. P. R. Duari, K. Das: **Nanofluids Technology for Thermal Sciences and Engineering: Research, Development, and Applications**, Chapter Title “Magnetohydrodynamic Flow of Ternary Hybrid Nanofluids Over a Wedge: Influence of Nanoparticle Shape Factor in Solar Energy Applications,” Chapter-05, 209–240 (2024), Publisher: **CRC Press (Taylor & Francis)**
 6. Tausif Sk & K. Das: **Nanofluids in Thermal Energy Management Systems**, Chapter Title: “Nanofluid Thermodynamics Under MHD and Solar Radiation,” Chapter-09, ISBN: 978-1-779-64630-9, Publisher: **CRC Press (Taylor & Francis)**
 7. P. R. Duari & K. Das, **In Heat Exchanger Technologies for Sustainable Renewable Energy Systems**, Chapter Title: “Flow features of radiating ternary hybrid nanofluid flow under the influence of induced magnetic field and nanoparticle shapes”. 223-242 (2025), **CRC Press (Taylor & Francis)**
 8. P. R. Duaria, N. Acharya & K. Das: **Nanofluids in Thermal Energy Management Systems**, Chapter Title: “Radiative Heat Transfer in Hybrid Nanofluids: Activation Energy and Slip Effects,” Chapter-12, ISBN: 978-1-779-64630-9, (2026) Publisher: **CRC Press (Taylor & Francis)**

15. Membership of Learned Societies / Editorial Boards

1. Life Member of Calcutta Mathematical Society
2. Member of ISI, Kolkata
3. Member of Proceedings of The Mathematical Society, Banaras Hindu University
4. Member of the Editorial Board of Reason-A Technical Journal
5. Member of the Editorial Board of Conscientia-An Academic Journal

16. Patents: Nil

17. Awards/Recognition:

I. Siksha Ratna Award 2019, Department of Higher Education, Government of West Bengal

II. Recognised as **World’s Top 2% Scientists by Stanford University, California, USA** in 2020 to 2025.

18. Other notable activities: Reviewer of 54 peer-reviewed National / International Journals

19. Participation in Seminars/Symposia/Conferences/Workshops:

A. Conferences / Seminars

1. **Participated in the International conference** on “**Frontier** of Mathematics and Applications,” organized by Dept. of Mathematics, University of Burdwan, 2008
2. **Presented a paper** entitled “A Mathematical Model on Nanofluid Flow and Heat Transfer Characteristics,” in the **International Seminar** on ‘The 12th International conference of Ten. Soc. On diff gre. And its appl. and infor. Besides,’ organized by Dept. of pure Mathematics, University of Calcutta, 2012
3. **Presented a paper** entitled “ Effects of magnetic field and slip velocity on nanofluid flow and heat transfer characteristics, ” in the **National Seminar** on ‘National conference on emerging trends in physics of fluids and solids,’ organized by Dept. of Mathematics, Jadavpur University, 2013
4. **Presented a paper** entitled “ Effects of magnetic field on an unsteady mixed convection flow of nanofluids containing spherical and cylindrical nanoparticles, ” in the **National Seminar** on ‘National conference on emerging trends in physics of fluids and solids,’ organized by Dept. of Mathematics, Jadavpur University, 2014
5. **Presented a paper** entitled “ MHD boundary layer flow of a nanofluid over a convectively heated stretching sheet, ” in the **National Seminar** on ‘National conference on emerging trends in physics of fluids and solids,’ organized by Dept. of Mathematics, Jadavpur University, 2015

B. Invited Lectures and Chairmanship

1. **Invited Lecture** on “An over view of Nanofluid flow and its applications, ” and **Chaired** a Session in the National Seminar on ‘Recent trends in mathematical analysis and modeling, ‘organized by The mathematical society, Banaras Hindu University& Dept. of Applied Mathematics, BIT, Patna, 2013
2. **Chaired a Technical Session** in the UGC-CPE assisted National Seminar on “ Frontiers in Science and Technology Towards National Development ” organized by A.B.N.Seal College, Cooch Behar, 2016
3. **Chaired a Technical Session** on Plenary Lecture – VII and Oral Presentation in the Interdisciplinary (Science) National Seminar on “ Science and Mankind – A Better Tomorrow ” organized by A.B.N.Seal College, Cooch Behar, 2018
4. **Invited Lecture** on “Mathematical Modelling to Market: How Fluid Dynamics Research Transforms Real-World Technologies, ” in the National Seminar on ‘From Innovation to Impact:

20. Faculty Development Programmes:

A. Participation in OP/RC

1. Participated in UGC Sponsored Orientation Programme, organized by UGC-Academic Staff College Jadavpur University from 5th July, 2004-31st July, 2004
2. Participated in UGC Sponsored Refresher Course, organized by Dept. of CSE, Phys. and Maths., University of Kalyani from 8th January, 2008-28th January, 2008
3. Participated in UGC Sponsored Refresher Course, organized by UGC-Academic Staff College Jadavpur University from 16th February, 2009 – 7th March, 2009
4. Participated in UGC Sponsored Refresher Course, organized by UGC-Academic Staff College, University of Burdwan, from 26th November, 2014– 16th December, 2014

B. Participation in Teaching-Learning-Evaluation Technology Programmes

1. Participated in Pedagogy and Teaching Methodology Training Programme, organized by Center for Personal Transformation, IIT Kharagpur and Kalyani. Govt. Engg. College from 17th March, 2009 – 30th March, 2009

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