Updated to 2 November 2026

1. Subhrajit Roy; S. Das Adhikary; **Amar P. Misra** (2026). Chaos in the dynamics of electromagnetic solitons in relativistic degenerate plasmas. *Chaos: An Interdisciplinary Journal of Nonlinear Science*, 36(3), 033125. https://doi.org/10.1063/5.0317640

2. Jyoti Turi; **Amar P Misra** (2026). Coupling of neutrino beam-driven MHD waves and resonant instabilities in rotating magnetoplasmas with neutrino two-flavour oscillations. *Monthly Notices of the Royal Astronomical Society*, 550(2), stag1257. https://doi.org/10.1093/mnras/stag1257

3. Sukhendu Das Adhikary; **Amar Prasad Misra** (2026). Internal Gravity Wave Turbulence in the Earth's Ionospheric F-Layer. *Physics*, 8(1), 14. https://doi.org/10.3390/physics8010014

4. S. Das Adhikary; **A.P. Misra** (2026). Pattern formation and spatiotemporal chaos in relativistic degenerate plasmas. *Communications in Nonlinear Science and Numerical Simulation*, 157, 109768. https://doi.org/10.1016/j.cnsns.2026.109768

5. **Anjan Kumar Bhuniya**; **Kalyan Hansda** (2026). Nil extensions of Clifford ordered semigroups. *Quasigroups and Related Systems*, 34(1), 21-30. https://doi.org/10.56415/qrs.v34.02

6. **Dibyendu Banerjee**; Ishita Ghosh (2026). On Value Distribution of Differential Polynomials of Meromorphic Functions. *Journal of Nepal Mathematical Society*, 9(1), 15-22. https://doi.org/10.3126/jnms.v9i1.95787

7. **Dibyendu Banerjee**; Ishita Ghosh (2026). (p,q)th Iterated (α, β) Order and Type of Meromorphic and Entire Functions. *Asian Journal of Mathematics and Applications*, 2026, Article 5, 9 pp. https://scienceasia.asia/files/2026-5.pdf

8. M. Imdadul Islam; Debopam Chakraborty; **Jaitra Chattopadhyay** (2026). Arbitrarily large Pólya groups of compositum of simplest fields and some bi-quadratic Pólya fields. *International Journal of Number Theory*, 22(05), 915-924. https://doi.org/10.1142/S1793042126500508

9. Pankaj Patel; Debopam Chakraborty; **Jaitra Chattopadhyay** (2026). On the Mordell-Weil rank and 2-Selmer group of a family of elliptic curves. *The Ramanujan Journal*, 69(2), Article 46. https://doi.org/10.1007/s11139-026-01317-5

10. Makhan Maji; Susmita Mallick; **Kalyan Hansda** (2026). Construction of a linear code over a finite commutative ring generated by a set of minimal codewords. *Applicable Algebra in Engineering, Communication and Computing*. https://doi.org/10.1007/s00200-026-00727-8

11. Swagata Dutta; Gourav Mandal; **Lakshmi Narayan Guin**; Santabrata Chakravarty (2026). Ecological pattern formation in a reaction-diffusion system with hydra and bubbling phenomena. *International Journal of Modelling and Simulation*, 1-29. https://doi.org/10.1080/02286203.2026.2688979

12. Sukanya Das; Gourav Mandal; **Lakshmi Narayan Guin**; Santabrata Chakravarty (2026). Emergent Patterns and Multi-Stability in a Reaction-Diffusion Model with Double Allee Effect. *Differential Equations and Dynamical Systems*. https://doi.org/10.1007/s12591-026-00775-z

13. Renji Han; Gourav Mandal; Santabrata Chakravarty; **Lakshmi Narayan Guin** (2026). Exploring the survival threat of species: spatiotemporal resilience of a reaction-diffusion model. *Nonlinear Dynamics*, 114(10), Article 767. https://doi.org/10.1007/s11071-026-12676-5

14. Deepabali Datta; Sukanya Das; Gourav Mandal; Suprava Mandal; **Lakshmi Narayan Guin**; Santabrata Chakravarty (2026). Modelling the influence of additional food in a tri-trophic food chain. *Modeling Earth Systems and Environment*, 12(2), Article 91. https://doi.org/10.1007/s40808-026-02720-z

15. Gourav Mandal; **Lakshmi Narayan Guin**; Santabrata Chakravarty (2026). Spatiotemporal complexity and parameter sensitivity in a tri-trophic food chain model. *Nonlinear Dynamics*, 114(16), Article 1062. https://doi.org/10.1007/s11071-026-12862-5

16. Gourav Mandal; **Lakshmi Narayan Guin**; Santabrata Chakravarty (2026). Spatiotemporal resilience in a three-species food web model with Allee effect. *International Journal of Biomathematics*, Article 2650028. https://doi.org/10.1142/S1793524526500282

17. Sukanya Das; Gourav Mandal; Deepabali Datta; Koyel Chakravarty; **Lakshmi Narayan Guin** (2027). Rich spectrum of spatiotemporal dynamics in avascular tumour cell proliferation. *Mathematics and Computers in Simulation*, 252, 1-33, February 2027. Published online in 2026; issue year 2027. https://doi.org/10.1016/j.matcom.2026.09.009

18. Sarbari Karmakar; **Nikhil Pal** (2026). Different routes to chaos and period-bubbling phenomenon: A study of a water-vegetation model. *Nonlinear Dynamics*, 114(3), 179 (article number). https://doi.org/10.1007/s11071-025-12043-w

19. Ziyad AlSharawi; Sarbari Karmakar; Saheb Pal; **Nikhil Pal** (2026). Predation risk induced Allee effect in a predator-prey model. *Journal of Difference Equations and Applications*, 32(7), 1031-1062. https://doi.org/10.1080/10236198.2026.2649372

20. **Prasanta Chatterjee**; Jayshree Mondal (2026). Dust-ion-acoustic breathers solution in planar, cylindrical, and spherical geometries in the presence of q distributed electrons. *The European Physical Journal Plus*, 141(9), Article 1024. https://doi.org/10.1140/epjp/s13360-026-08242-y

21. **Prasanta Chatterjee**; Dipan Saha; Nanda Kanan Pal; Santanu Raut (2026). Exact Solution of the (2+1)-Dimensional Damping Forcing Coupled Burgers Equation by Using Darboux Transformation. *Natural Sciences and Applied Technology*, 3(1S), 64-71. https://doi.org/10.5281/zenodo.18822865

22. **Prasanta Chatterjee**; Jayshree Mondal (2026). Face-to-face Interactions of Breathers in Electron-Ion Plasma with the Critical Composition of an Electron Beam. *Natural Sciences and Applied Technology*, 3(1S), 41-54. https://doi.org/10.5281/zenodo.18818056

23. Saugata Dutta; Kajal Kumar Mondal; **Prasanta Chatterjee** (2026). Fractal waveforms in a (2+1)-dimensional dispersive system: applications in fluids, plasmas and optical systems. *Indian Journal of Physics*, 100(6), 2445-2458. https://doi.org/10.1007/s12648-026-03929-5

24. M. Eghbali; Kusum Chettri; **Prasanta Chatterjee**; Asit Saha (2026). Investigation of Nonlinear Dust-Acoustic Waves in the Presence of an Electron Beam. *IEEE Transactions on Plasma Science*, 54(2), 417-428. https://doi.org/10.1109/TPS.2025.3643475

25. **Prasanta Chatterjee**; Suman Pal (2026). Non-Local Energy Dissipation and Topological Obstructions in the Second-Order Positive Modified Burgers' Equation. *Natural Sciences and Applied Technology*, 3(2), 601-606. https://doi.org/10.5281/zenodo.23040217

26. Suvojit Laha; **Prasanta Chatterjee**; Santanu Raut (2026). Painlevé analysis and Auto-Bäcklund transformation for nonlinear wave structures and emergence of chaos in a driven damped coupled Boussinesq system. *Chaos, Solitons & Fractals*, 213, 119169. https://doi.org/10.1016/j.chaos.2026.119169

27. Suvojit Laha; **Prasanta Chatterjee** (2026). Painlevé integrability, auto-Bäcklund transformations, and quasiperiodic structures of the Boussinesq-Burgers system with applications to dissipative wave phenomena. *The European Physical Journal Plus*, 141(6), Article 725. https://doi.org/10.1140/epjp/s13360-026-07948-3

28. Snehalata Nasipuri; **Prasanta Chatterjee** (2026). Qualitative interaction dynamics of lump-type and breather structures in coupled Boussinesq system. *Zeitschrift für Naturforschung A*, 81(8), 673-688. https://doi.org/10.1515/zna-2025-0256

29. Kusum Chettri; Snehalata Nasipuri; **Prasanta Chatterjee**; Asit Saha (2026). Solitary, Periodic, Lump, Breather, and Multisoliton Wave Features in Venusian Mantle. *IEEE Transactions on Plasma Science*, 54(10), 4962-4980. https://doi.org/10.1109/TPS.2026.3720678

30. Akash Pradip Mandal; Ramprosad Saha; **Prashanta Kumar Mandal** (2026). Effects of inter-strut distance and stent embedment on three-phase drug transport from coronary stent. *Physica Scripta*, 101(24), 245006. https://doi.org/10.1088/1402-4896/ae750d

31. Tanmoy Bhuimali; Sarifuddin; **Prashanta Kumar Mandal** (2026). Impact of Tip Position and Injection Velocity on Transdermal Drug Delivery through Microneedle in a Three-Layered Skin and its Retention in Tissue. *Journal of Pharmaceutical Innovation*, 21(4), 423. https://doi.org/10.1007/s12247-026-10661-4

32. Somaiya Sultana; Sarifuddin; **Prashanta Kumar Mandal** (2026). Modelling nanocarrier-mediated transdermal drug delivery to skin and its retention in tissue using dissolving microneedles. *Journal of Micromechanics and Microengineering*, 36(5), 055007. https://doi.org/10.1088/1361-6439/ae6667

33. Kannigah Thirunanasambantham; Zuhaila Ismail; Yeou Jiann Lim; Amnani Shamjuddin; **Prashanta Kumar Mandal** (2026). The impact of hybrid gold and silver nanoparticles on MHD GPL blood flow in an intricate arterial stenosis. *Multiscale and Multidisciplinary Modeling, Experiments and Design*, 9(1), 144. https://doi.org/10.1007/s41939-026-01221-x

34. Xinlei Huang; Akshoy Ranjan Paul; **Prashanta Kumar Mandal**; Suvash C. Saha (2026). Transport and deposition of pharmaceutical aerosols in a helium-oxygen mixture in a CT-based nose-to-lung respiratory tract. *Experimental and Computational Multiphase Flow*, 8(2), 295-312. https://doi.org/10.1007/s42757-025-0267-9

35. Rathindra Nath Basak; **Sougata Biswas** (2026). Flow topology and dynamical characterization of TGL vortices in the lid-driven cavity. *Sādhanā*, 51(4), 281 (article number). https://doi.org/10.1007/s12046-026-03351-x

36. Rathindra Nath Basak; **Sougata Biswas** (2026). Flow topology and vortex dynamics of transient flow in a three-dimensional semi-circular cavity. *Physics of Fluids*, 38(8), 084111 (article number). https://doi.org/10.1063/5.0345494

37. Palas Mandal; Nilay Mondal; **Sougata Biswas** (2026). Stress impact on collinear Griffith cracks for diffraction of primary waves. *Waves in Random and Complex Media*, 1-13 (online first). https://doi.org/10.1080/17455030.2026.2688079

38. Rathindra Nath Basak; **Sougata Biswas** (2026). On the formation and exact location of Taylor-Görtler-Like vortices in a rectangular lid-driven cavity. *Meccanica*, 61(1), Article 5. https://doi.org/10.1007/s11012-025-02076-1

39. Suparna Dash; **Subhas Khajanchi** (2026). Dynamics of an intraguild predation system with optimal foraging and harvesting. *Theoretical Population Biology*, 170, 45-61. https://doi.org/10.1016/j.tpb.2026.06.004

40. Santosh Biswas; Buddhadev Ranjit; Saddam Mollah; Joydev Chattopadhyay; **Subhas Khajanchi**; Bashir Ahmad (2026). Effect of Delay on Coral Reef Ecosystem with Disease Presence in Coral Species. *Boletim da Sociedade Paranaense de Matemática*, 44(2), 1-28. https://doi.org/10.5269/bspm.78055

41. Mitali Maji; **Subhas Khajanchi** (2026). Identifying key parameters in an Alzheimer's model through comprehensive sensitivity analysis. *Communications in Nonlinear Science and Numerical Simulation*, 159, 109854. https://doi.org/10.1016/j.cnsns.2026.109854

42. Mitali Maji; Laurent Pujo-Menjouet; **Subhas Khajanchi** (2026). Quantifying Uncertainty and Sensitivity in an Alzheimer's Disease Model: A Mathematical Approach. *Acta Biotheoretica*, 74(1), 5. https://doi.org/10.1007/s10441-025-09514-3

43. **Subhasis Ray** (2026). A Hirota three-soliton obstruction for a complex-order KdV-type bilinear family. *Wave Motion*, 147, 103817. https://doi.org/10.1016/j.wavemoti.2026.103817

44. **Subhasis Ray** (2026). A spectral fractional Hirota bilinear formulation for a time-fractional nonlinear Schrödinger flow: one-soliton solution and obstruction to finite two-soliton truncation. *Proceedings of International Mathematical Sciences*, 8(1), 9-15. https://doi.org/10.47086/pims.1866476

45. **Subhasis Ray**; S. Pal; S. Ghosh (2026). Convexity Conditions for Symmetric Borel Derivatives and Borel Smoothness. *Journal of Nepal Mathematical Society*, 9(1), 130-139. https://doi.org/10.3126/jnms.v9i1.95789

46. **Subhasis Ray** (2026). Soft Topological Modules via Soft Elements. *Journal of Soft Computing and Artificial Intelligence*, 7(1), 14-24. https://doi.org/10.55195/jscai.1896971

47. **Subhasis Ray**; Suranjana Deb (2026). First-order Borel-Perron Integration: Properties and Applications. *Journal of Informatics and Mathematical Sciences*, 18(1), 1-12. https://doi.org/10.26713/jims.v18i1.3534

48. Suman Pal; **Subhasis Ray** (2026). Hermite-Hadamard-Fejer and Jensen-Type Inequalities for η-Convex Functions in the Non-Newtonian Setting. *Konuralp Journal of Mathematics*, 14(2), 188-198. https://izlik.org/JA47AB48PY

49. **Subhasis Ray** (2026). Soft Uniform Spaces and Soft Uniform Continuity: Induced Topologies, Separation, and Compactness-Type Results. *International Journal of Foundations of Computer Science*, pp. 1-15. https://doi.org/10.1142/S0129054126500310

50. **Subhasis Ray** (2026). Flett-type mean value theorems for generalized derivatives. *Journal of Classical Analysis*, 28(2), 317-345. https://doi.org/10.7153/jca-28-21

51. Abhishikta Das; Dipti Barman; **Tarapada Bag**; Hijaz Ahmad; Waleed Mohammed Abdelfattah; Osama Oqilat; Clemente Cesarano (2026). Controlled Fuzzy 2-Metric Spaces: A Soft Computing Framework with Dynamic Applications. *International Journal of Analysis and Applications*, 24, Article 110. https://doi.org/10.28924/2291-8639-24-2026-110

52. Dipti Barman; Abhishikta Das; **Tarapada Bag** (2026). Exploring fixed point results in fuzzy F-metric spaces with an application to satellite web coupling problem. *Kybernetika*, 62(2), 237-256. https://doi.org/10.14736/kyb-2026-2-0237

53. Dipti Barman; **Tarapada Bag** (2026). Fixed point theorems on perturbed metric space with an application. *Problemy Analiza - Issues of Analysis*, 15(33)(2), 3-19. https://doi.org/10.15393/j3.art.2026.19510

54. Abhishikta Das; Dipti Barman; Mohammad Sajid; **Tarapada Bag** (2026). Fractal attractors of iterated function systems in extended fuzzy F-metric spaces. *AIMS Mathematics*, 11(9), 32109-32156. https://doi.org/10.3934/math.20261262

55. Riya Dey; **Tarapada Bag** (2026). On statistical convergence in complex-valued fuzzy normed linear spaces. *Annals of Fuzzy Mathematics and Informatics*, 32(1), 47-60. https://doi.org/10.30948/afmi.2026.32.1.47

56. Riya Dey; **T. Bag** (2026). Some aspects of finite dimensional complex valued normed linear spaces. *Global Journal of Pure and Applied Mathematics*, 22(2), 415-427. https://doi.org/10.37622/GJPAM/22.2.2026.415-427

57. Riya Dey; **Tarapada Bag** (2026). Some results on finite dimensional G-fuzzy normed linear spaces. *Afrika Matematika*, 37, Article 74. https://doi.org/10.1007/s13370-026-01470-6

58. Riya Dey; **T. Bag** (2026). Uniform boundedness principle in G-fuzzy normed linear spaces. *Global Journal of Pure and Applied Mathematics*, 22(2), 361-376. https://doi.org/10.37622/GJPAM/22.2.2026.361-376

59. Abdul Aziz; **Tapas Ray Mahapatra** (2026). Unsteady Mixed Convection Three-Dimensional Hiemenz Stagnation Point Flow. *ZAMM - Journal of Applied Mathematics and Mechanics / Zeitschrift für Angewandte Mathematik und Mechanik*, 106(8), e70555. https://doi.org/10.1002/zamm.70555