List of Publications:

I) Muhim Chutia and P.N. Deka. *Numerical Study on Steady Magneto hydrodynamics (MHD) Flow and Heat Transfer in a Heated Rectangular Electrically Insulated Duct under the Action of Strong Oblique Transverse Magnetic*, International Journal of Computer Application, 86(15), 27-34. ISSN-0975 - 8887, 2014(http://dx.doi.org/10.5120/15062-3460).

II) Muhim Chutia and P.N. Deka. *Numerical Solution of MHD Flow in an Insulted Rectangular Duct under the Action of Strong Transverse Magnetic Field by Finite Difference Method*, International Journal of Energy and Technology, 6 (10), 1-8, ISSN 2035-911X, 2014.

III) Muhim Chutia and P.N. Deka. *Numerical Investigation on MHD Forced and Mixed Convection Flow in a Vertical Rectangular Duct with Inclinations of Field and Duct Walls*, International Journal of Energy and Technology, 6 (23), 1-11, ISSN 2035-911X, 2014.

IV) Muhim Chutia and P.N. Deka. *Numerical Study on MHD Mixed Convection Flow in a Vertical Insulated Square Duct with Strong Transverse Magnetic Field*, Journal of Applied Fluid Mechanics (**Scopus Indexed**), 8(3), 473-481, ISSN: 1735-3572, EISSN: 1735-3645. 2015 (http://dx.doi.org/10.18869/acadpub.jafm.67.222.22873).

V) Muhim Chutia and P.N. Deka. *Numerical Solution for Coupled MHD Flow Equations in a Square Duct in the Presence of Strong Inclined Magnetic Field*, International Journal of Advance Research in Physical Science (IJARPS), 2(9), 20-29, ISSN: 2349-7874 (Print) & ISSN: 2349-7882 (Online), 2015.

VI) Muhim Chutia and P.N. Deka. *A Numerical Investigation on Magnetohydrodynamic Flow in Rectangular Duct with strong Transverse Magnetic Field and Moving Insulating Walls*, Proceeding of International Conference on Frontiers in Mathematics, Paper, 25, 113-118, ISBN: 978-81-928118-9-5, 2015.

VII) Muhim Chutia. *Numerical Study of Steady MHD Plane Poiseuille Flow and Heat Transfer in an Inclined Channel*, International Journal of Advanced Research in Science, Engineering and Technology; 3(10), 2773-2781, ISSN: 2350-0328, 2016.

VIII) Muhim Chutia, T.N. Das and P.J. Chetia. *Numerical Solution of Unsteady Hydromagnetic Couette Flow in a Rotating System Bounded by Porous Plates with Hall Effects*, International Journal of Computer Applications 171(2), 1-6, ISSN: 0975-8887, 2017 (http://dx.doi.org/10.5120/ijca2017914967).

IX) Muhim Chutia. *Numerical Investigation on Unsteady MHD Couette Flow in a Rotating System in the Presence of an Inclined Magnetic Field with Hall Currents*, Assam College Teachers' Association Journal, 39, 232-238, ISSN: 2229-693X**,** 2017.

X) Muhim Chutia. *Effect of Variable Thermal Conductivity and the Inclined Magnetic Field on MHD Plane Poiseuille Flow in a Porous Channel with Non-uniform Plate Temperature*, Journal of Computational and Applied Research in Mechanical Engineering (**Scopus Indexed**), 8(1), 75-84, ISSN: 2228-7922, 2018 (http://dx.doi.org/10.22061/jcarme.2017.1620.1137).

XI) Muhim Chutia. *Numerical Solution of Unsteady MHD Couette Flow and Heat Transfer in an Inclined Porous Channel*, Assam College Teachers' Association Journal, 40, 159-167, ISSN: 2229-693X, 2018.

XII) Muhim Chutia. *Combined Effect of Hall and Ion-slip Currents on Unsteady MHD Couette Flow in a Channel with Porous Walls*, The Watchword, VIII, 19-31,ISSN: 2321-189X, 2019.

XIII) Muhim Chutia and A.K. Dutta. *Effect of Hall and Ion-Slip Current on Unsteady MHD Couette Flow in a Rotating Porous Channel*, Assam College Teachers' Association Journal, 41, 218-227, ISSN: 2229-693X, 2019.

XIV) Muhim Chutia. *Effects of the Porous Boundary and Inclined Magnetic Field on MHD Flow in a Rectangular Duct*, Journal of Applied Mathematics and Computational Mechanics (**UGC Care List**), 19(4), 33-44, ISSN: 2299-9965, 2020 (https://doi.org/10.17512/jamcm.2020.4.03).

XV) Muhim Chutia and P.N. Deka. *Numerical Solution of Unsteady MHD Couette Flow in the Presence of Uniform Suction and Injection with Hall Effects, Iranian Journal of Science and Technology*, Transactions of Mechanical Engineering (**Scopus Indexed**), 45, 503–514, ISSN: 2228-6187, 2021 (http://dx.doi.org/10.1007/s40997-020-00369-2).

XVI) Muhim Chutia. *Numerical solution of MHD channel flow in a porous medium with uniform and injection in the presence of an inclined magnetic field*, Journal of Applied Mathematics and Computational Mechanics (**UGC Care List**), 21(2), 5-13, ISSN: 2299-9965, 2022 (https://doi.org/10.17512/jamcm.2022.2.01)