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## Biography

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**Md. Mamun Miah**
Assistant Professor
**Research Area**Mathematical Physics,
Nonlinear Sciences, Fluid Dynamics

## Education

**Masters of Science (M. Sc.)**
  University of Rajshahi,Bangladesh(2013)Student Type:Regular,Merit Position: First Class Third,
  **Thesis Title:** <u>Study on boundary layer and the effect of first order chemical reaction in turbulent and MHD turbulent flow.</u>
**Bachelor of Science (B. Sc.)**
  University of Rajshahi,Bangladesh(2012)Group: Department of Applied Mathematics,Student Type:Regular,Merit Position: First Class First,
**Higher Secondary Certificate (H.S.C)**
  Lions School and College,Bangladesh(2008)Group: Science,Student Type:Regular,Achievement:A Plus
**Secondary School Certificate (S. S. C)**
  Kadirabad High School,Bangladesh(2006)Group: Science,Student Type:Regular,

## Service Records

- **Assistant Professor**
  **Department/Section:** Mathematics
  **Khulna University of Engineering & Technology** *From 01-01-1970 to 01-01-1970*
  Working Area:Teaching & Research
- **Lecturer**
  **Department/Section:** Mathematics
  **Khulna University of Engineering & Technology** *From 01-01-1970 to 01-01-1970*
  Working Area:Teaching & Research
- **Lecturer**
  **Department/Section:** Computer Science and Engineering
  **Southeast University** *From 01-01-1970 to 01-01-1970*

## Research Interest

**Mathematical Physics, Nonlinear Sciences, Fluid Dynamics**

## Publication

**Books**

**Journals**

33. Borhan,J. R. M. ,Miah,M. M. and Osman,M. A. I. a. M. S. (2023) , " A highly effective analytical .........," ***Submitted to the Journal(MMM)***

32. Iqbal,M. A. and Osman,M. M. M. a. M. (2023) , " An investigative program to............," ***Submitted to the Journal(MMM)***

31. Rasid,M. M. , Miah,M. M. , Ganie,A. and Osman,M. S. (2023) , " An alternative approach.........," ***Modern Physics letter B***, Submitted to the Journal(MSO)

30. (2023) , " New investigation of the analytical behaviors for............," ***Submitted to the Journal(MSO)***

29. Iqbal,M. A. , Miah,M.M. , Rasid,M. M. and Osman,S. M. E. a. M. S. (2023) , " An investigation of the two integro-differential..........," ***Arab Journal of Science and Engineering*** , Submitted to the Journal(MSO)

28. (2023.) , " New Exact Traveling Wave Solutions to the Zakharov-Kuznetsov-Benjamin-Bona-Mahony Equation," ***AIP Conference Proceedings (Accepted for Publication)***, International Conference on Advances in Physical Sciences and Materials 2022, KPR Institute of Engg. & Tech., Coimbatore, Tamil Nadu, India

27. Mia,R. and Osman,M. M. M. a. M. S. (2023.) , " A new implementation for finding of analytical solutions in nonlinear PDEs," ***Heliyon***, Elsevier, Q1 and IF: 3.776, vol9, no.5, pp.e15690

26. Miah,M. M. and Osman,M. A. I. a. M. S. (2023.) , " A Study on stochastic longitudinal wave equation in a magneto-electro-elastic annular bar to find the analytical solutions," ***Communications in Theoretical Physics***, IOP Publishing Ltd., Q2, IF:3.1, vol75, pp.085008

25. Iqbal,M. A. ,Miah,M. M. and Osman,H. M. S. A. a. M. S. (2023) , " An analysis to.........," ***Optical and Quantum Electronics***, Submitted to the Journal

24. Iqbal,M. A. , Baleanu,D. , Miah,M.M. , Ali,H. S. and Osman,H. M. A. a. M. S. (2023) , " New soliton solutions of the mZK equation and the Gerdjikov-Ivanov equation by employing the double (ð'®â€²â"ð'®,1/ð'®)-expansion method," ***Results in Physics***, Q2, Elsevier, ISI IF: 4.564, vol47, pp.106391

23. Chowdhury,M. A. , Miah,M. M. , Iqbal,M. A. , Alshehri,H. M. and Osman,D. B. a. M. S. (2023) , " Advanced exact solutions to the nano-ionic

currents equation through MTs and the soliton equation containing the RLC transmission line," **The European Physical Journal Plus** , Springer, vol138, pp.502

22. Borhan,J. R. M. ,Miah,M. M. and Osman,M. A. I. a. M. S. (2023) , " Discovering the innumerable solutions of the -dimensional integro-differential Ito and -dimensional integro-differential Sawda-Kotera equations via an efficient analytical technique," **Applied Mathematics & Information Sciences**, Accepted(Scopus indexed) Q4 in SJR

21. Ali,H. S. , Habib,M. , Miah,M. M. , Miah,M. M. and Akbar,M. A. (2023.) , " Diverse solitary wave solutions of fractional order Hirota-Satsuma coupled KdV system using two expansion methods," **Alexandria Engineering Journal**, Elsevier, Q1 and IF: 6.626, vol66, pp.1001-1014

19. (2022) , " Assorted soliton wave solutions of time-fractional BBM-Burger and Sharma-Tasso-Olver equations in nonlinear analysis," **Journal of Ocean Engineering and Science**, Accepted, Elsevier (Q2 and ISI IF : 3.408)

18. Iqbal,M. A. , Wang,Y. , Miah,M. M. and Osman,M. S. (2022.) , " Study on Dateâ€"Jimboâ€"Kashiwaraâ€"Miwa Equation with Conformable Derivative Dependent on Time Parameter to Find the Exact DynamicWave Solutions," **fractal and fractional (Q1)**, MDPI (ISI IF: 3.577), vol6, no.4

17. Chowdhury,M. A. , Miah,M. M. , Ali,H. S. , Chu,Y. and Osman,M. (2021) , " An investigation to the nonlinear (2 + 1)-dimensional soliton equation for discovering explicit and periodicwave solutions," **Results in Physics**, Q1 and ISI IF: 4.019, Elsevier, vol23, no.104013

16. Ali,H. S. , Habib,M. , Miah,M. and Akbar,M. A. (2020) , " Solitary wave solutions to some nonlinear fractional evolution equations in mathematical physics," **Heliyon** , Q1 and ISI IF:1.650, Elsevier, vol6, no.4, pp.e03727

15. (2020) , " New exact solutions for the Kaup-Kupershmidt equation," **AIMS Mathematics** , Q2 and ISI IF: 1.427, AIMS Press, vol5, no.6, pp.6726â€"673

14. Miah,M. M. , Seadawy,A. R. , Ali,H. S. and Akbar,M. A. (2020) , " Abundant closed form wave solutions to some nonlinear evolution equations in mathematical physics," **Journal of Ocean Engineering and Science**, Q2 and ISI IF :3.408 , Elsevier , vol5, no.3, pp.269-278

13. Billah,M. A. ,Miah,M. M. and Khan,M. N. (2020) , " Reproductive number of coronavirus: A systematic review and meta-analysis based on global level evidence," **PLOS ONE**, Q1 and ISI IF: 3.2, Elsevier, vol15, no.11, pp.1-17

13. Ali,H. M. S. ,Akher,C. M. and Akbar,M. M. M. a. M. A. (2020.) , " Abundant closed form wave solutions to the Burgers equation, Bogoyavlenskii equation and negative Gardner-KP equation," **New Trends in Mathematical Sciences (ISI)**, BISKA, vol8, no.1, pp.26-41

12. Habib,M. A. ,Ali,H. M. S. and Akbar,M. M. M. a. M. A. (2019.) , " The generalized Kudryashov method for new closed form traveling wave solutions to some NLEEs," **AIMS Mathematics** , Q2 and ISI IF: 1.427, AIMS Press, vol4, no.3, pp.896â€"909

9. Rahman,M. M. , Ali,M. S. , Habib,M. A. and Miah,M. M. (2019.) , " The Generalized Kudryashov method: a renewed mechanism for performing exact solitary wave solutions of some NLEEs," **Journal of Mechanics of Continua and Mathematical Sciences(ISI)**, vol14, no.1, pp.323-339

8. Ali,H. M. S. , Habib,M. A. , Miah,M. M. and Akbar,M. A. (2019.) , " A modification of the Generalized Kudryashov method for the system os some nonlinear evolution equations," **Journal of Mechanics of Continua and Mathematical Sciences(ISI)**, vol14, no.1, pp.91-109

6. Ali,H. M. S. and Akbar,M. M. M. a. M. A. (2018.) , " Study of abundant explicit wave solutions of the DSSH equation and the shallow water wave equation," **Propulsion and Power Research**, Q1 and ISI IF 3.738, Elsevier, vol7, no.4, pp.320-328

6. Miah,M. M. and Akbar,H. M. S. A. a. M. A. (2016.) , " An investigation of abundant traveling wave solutions of complex nonlinear evolution equations: The perturbed nonlinear Schrodinger equation and the cubic-quinticGinzburg-Landau equation," **Cogent Mathematics** , Taylor & Francis, vol3, no.1, pp.1277506

**Conference**

3. (18-19 August, 2022) , "New Exact Traveling Wave Solutions to the Zakharov-Kuznetsov-Benjamin-Bona-Mahony Equation," **Third International Conference on Advances in Physical Sciences and Materials 2022** , AIP Conference Proceedings, KPR Institute of Engg. & Tech.