



**Faculty Research Information (2010-2020)**

**Dept. of Science and Humanities**

SL No.	Name of the Researcher with Designation	Title of the Research work	Area of Research	Year of Completion /ongoing	No of Research Works published	Name of the Journal (If the Research work is published)	Impact Fact or Journals	Journal/ Publication Link
1	Md. Nazrul Islam, Assistant Professor	Enhancement of Néel temperature and electrical resistivity of Mn-Ni-Zn ferrites by Gd <sup>3+</sup> substitution	Materials Science	2019	1	Journal of Materials Research and Technology (JMR&T)	5.289	<a href="https://www.doi.org/10.1016/j.jmrt.2017.11.006">https://www.doi.org/10.1016/j.jmrt.2017.11.006</a>
2	Md. Nazrul Islam, Assistant Professor	Effect of Crystal Growth Inhibitors on Efficiency Enhancement of Dye-Sensitized Solar Cell	Renewable Energy	2018	1	International Journal of Scientific and Engineering Research (IJSER)	--	<a href="https://www.doi.org/10.14299/ijser.2018.10.21">https://www.doi.org/10.14299/ijser.2018.10.21</a>
3	Md. Nazrul Islam, Assistant Professor	Effect of Gd Substitution on Structural and Magnetic Properties of Mn-Ni-Zn Ferrites	Materials Science	2017	1	International Journal of Scientific and Engineering Research (IJSER)	--	<a href="https://www.doi.org/10.14299/ijser.2017.01.019">https://www.doi.org/10.14299/ijser.2017.01.019</a>
4	Baizid Hosen, Assistant Professor	Compressive and rarefactive ion-acoustic solitons in a magnetized quantum plasma	Plasma Physics	2016	2	The European Physical Journal - Plus (EPJ Plus)	3.228	<a href="https://link.springer.com/article/10.1140/epjp/i2016-16081-y">https://link.springer.com/article/10.1140/epjp/i2016-16081-y</a>
5	Baizid Hosen, Assistant Professor	Korteweg-de Vries-Burgers equation in a multi-component magnetized plasma with nuclei of heavy elements	Plasma Physics	2016		Journal of the Korean Physical Society (JKPS)	0.63	<a href="https://link.springer.com/article/10.3938/jkps.69.1762">https://link.springer.com/article/10.3938/jkps.69.1762</a>
6	Baizid Hosen, Assistant Professor	Ion-acoustic solitary waves and double layers in a magnetized degenerate quantum plasma	Plasma Physics	2017	1	IEEE Transactions on Plasma Science	1.37	<a href="https://ieeexplore.ieee.org/abstract/document/8098620">https://ieeexplore.ieee.org/abstract/document/8098620</a>



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7	Baizid Hosen, Assistant Professor	Relativistic Ion-Acoustic Solitary Waves in a Magnetized Pair Ion Dense Plasma with Nuclei of Heavy Elements	Plasma Physics	2018	3	Plasma Physics Reports	1.1	<a href="https://link.springer.com/article/10.1134/S1063780X18100045">https://link.springer.com/article/10.1134/S1063780X18100045</a>
8	Baizid Hosen, Assistant Professor	Solitary Potential in a Space Plasma Containing Dynamical Heavy Ions and Bi-Kappa Distributed Electrons of Two Distinct Temperatures	Plasma Physics	2018		Communications in Theoretical Physics	2.19	<a href="https://iopscience.iop.org/article/10.1088/0253-6102/69/1/107/meta">https://iopscience.iop.org/article/10.1088/0253-6102/69/1/107/meta</a>
9	Baizid Hosen, Assistant Professor	Oblique Propagation of Electrostatic Waves in a Magnetized Electron-Positron-Ion Plasma in the Presence of Heavy Particles	Plasma Physics	2018		Zeitschrift für Naturforschung A	1.45	<a href="https://www.degruyter.com/document/doi/10.1515/zna-2017-0419/html">https://www.degruyter.com/document/doi/10.1515/zna-2017-0419/html</a>
10	Baizid Hosen, Assistant Professor	Electroacoustic Waves in a Collision-Free Magnetized Superthermal Bi-Ion Plasma	Plasma Physics	2019	1	Plasma Physics Reports	1.1	<a href="https://link.springer.com/article/10.1134/S1063780X19050118">https://link.springer.com/article/10.1134/S1063780X19050118</a>
11	Dr. Wahida Zaman Loskor, Associate Professor	Graeffe's Root Squaring Method: Its Software Modification and Extension	Numerical Analysis	2013	1	Journal of the Faculty of Basic and Social Sciences, Gono Bishwabidyalay		<a href="https://www.researchgate.net/publication/336846458_Graeffe's_Root_Squaring_Method_Its_Software_Modification_and_Extension">https://www.researchgate.net/publication/336846458_Graeffe's_Root_Squaring_Method_Its_Software_Modification_and_Extension</a>
12	Dr. Wahida Zaman Loskor, Associate Professor	Generation of Equilibria of the Boltzmann Equation Discretized on an N-Layer Loosely Coupled Hexagonal Grid	Fluid Dynamics	2014	1	Jahangirnagar University Journal of Information Technology (JUJIT)		<a href="https://www.researchgate.net/publication/336846466_Generation_of_Equilibria_of_the_Boltzmann_Equation_Discretized_on_an_N-Layer_Loosely_Coupled_Hexagonal_Grid">https://www.researchgate.net/publication/336846466_Generation_of_Equilibria_of_the_Boltzmann_Equation_Discretized_on_an_N-Layer_Loosely_Coupled_Hexagonal_Grid</a>
13	Dr. Wahida Zaman Loskor, Associate	The appropriate grid size of N layer loosely Coupled Hexagonal	Fluid Dynamics	2016	2	ULAB Journal of Science and		<a href="http://journals.ulab.edu.bd/jse/vol7_2016/paper04.pdf">http://journals.ulab.edu.bd/jse/vol7_2016/paper04.pdf</a>



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	Professor	Model for Equilibra of Boltzmann Equation				Engineering		
14	Dr. Wahida Zaman Loskor, Associate Professor	Numerical Simulation of the Discrete Equilibrium Solutions of Boltzmann Equation on an N-layer Loosely Coupled Hexagonal Grid	Fluid Dynamics	2016		International Journal of Scientific & Engineering Research	4.2	<a href="https://www.ijser.org/onlineResearchPaperViewer.aspx?Numerical-simulation-of-the-discrete-equilibrium-solutions-of-Boltzmann-equation-on-a-N-layer-loosely-coupled-hexagonal-grid.pdf">https://www.ijser.org/onlineResearchPaperViewer.aspx?Numerical-simulation-of-the-discrete-equilibrium-solutions-of-Boltzmann-equation-on-a-N-layer-loosely-coupled-hexagonal-grid.pdf</a>
15	Dr. Wahida Zaman Loskor, Associate Professor	Modified Graeffe's Root Squaring Method with solvability Conditions	Numerical Analysis	2017	1	International Journal of Scientific & Engineering Research	4.2	<a href="https://www.ijser.org/researchpaper/MODIFIED-GRAEFFE%E2%80%99S-ROOT-SQUARING-METHOD-WITH-SOLVABILITY-CONDITIONS.pdf">https://www.ijser.org/researchpaper/MODIFIED-GRAEFFE%E2%80%99S-ROOT-SQUARING-METHOD-WITH-SOLVABILITY-CONDITIONS.pdf</a>
16	Dr. Wahida Zaman Loskor, Associate Professor	Existence of Periodic Travelling Waves in a One-Parameter Family of Solutions in the FitzHugh-Nagumo Model of Nerve Cell Dynamics	Nonlinear Fluid Dynamics	2018	2	Jahangirnagar Journal of Mathematics and Mathematical Sciences (JJMS)		<a href="https://www.researchgate.net/publication/336846567_Existence_of_Periodic_Travelling_Waves_in_a_One-Parameter_Family_of_Solutions_in_the_FitzHugh-Nagumo_Model_of_Nerve_Cell_Dynamics">https://www.researchgate.net/publication/336846567_Existence_of_Periodic_Travelling_Waves_in_a_One-Parameter_Family_of_Solutions_in_the_FitzHugh-Nagumo_Model_of_Nerve_Cell_Dynamics</a>
17	Dr. Wahida Zaman Loskor, Associate Professor	Weakness and Recovery of Graeffe's Root Squaring Method	Numerical Analysis	2018		World Journal of Engineering Research and Technology	5.218	<a href="http://www.wjert.org/download/article/26042018/1526473005.pdf">http://www.wjert.org/download/article/26042018/1526473005.pdf</a>
18	Dr. Wahida Zaman Loskor, Associate Professor	Experimental Evidences from Prisoner's Dilemma and One Shot Games in Duopoly Markets in Bangladesh	Game Theory	2019	1	IOSR Journal of Mathematics (IOSR-JM)		<a href="http://www.iosrjournals.org/iosr-jm/papers/Vol15-issue2/Series-3/D1502032939.pdf">http://www.iosrjournals.org/iosr-jm/papers/Vol15-issue2/Series-3/D1502032939.pdf</a>
19	Dr. Wahida Zaman Loskor, Associate Professor	Investigation Of Generalized Shallow Water Equation For Shock Wave And Abundant Solutions Using A Further	Nonlinear Fluid Dynamics	2020	1	BAIUST Academic Journal (BAJ)		<a href="https://journal.baiust.edu.bd/wp-content/uploads/2021/03/Article-10.pdf">https://journal.baiust.edu.bd/wp-content/uploads/2021/03/Article-10.pdf</a>



		Extended Tanh Method						
20	Nusrat Jahan, Assistant Professor	MHD Free Convective Heat Transfer in a Triangular Enclosure Filled with Copper-Water Nanofluid	Heat Transfer	2020	3	International Journal of Material and Mathematical Sciences	----	<a href="https://doi.org/10.34104/ijmms.020.029038">https://doi.org/10.34104/ijmms.020.029038</a>
21	Nusrat Jahan, Assistant Professor	Investigation of generalized shallow water equation for shock wave and abundant solutions using a further extended tanh method	Nonlinear Fluid Dynamics	2020		BAIUST Academic Journal	----	<a href="https://journal.baiust.edu.bd/wp-content/uploads/2021/03/Article-10.pdf">https://journal.baiust.edu.bd/wp-content/uploads/2021/03/Article-10.pdf</a>
22	Nusrat Jahan, Assistant Professor	Improved cooling capacity of a solar heat driven adsorption chiller”, Case Studies in Thermal Engineering	Fluid mechanics	2020		Case Studies in Thermal Engineering , Elsevier Ltd	4.92	<a href="https://doi.org/10.1016/j.csite.2019.100568">https://doi.org/10.1016/j.csite.2019.100568</a>
23	Nusrat Jahan, Assistant Professor	Analyzing and Projection of Future Bangladesh Population Using Logistic Growth Model	Fluid mechanics	2019	3	International Journal of Modern Nonlinear Theory and Application	0.53	10.4236/ijmnta.2019.83004.
24	Nusrat Jahan, Assistant Professor	Mixed Convection Heat Transfer of Nanofluid in a Lid-Driven Porous Medium Square Enclosure with Pairs of Heat SourceSinks.,	Heat Transfer	2019		American Journal of Engineering Research (AJER)	0.157	<a href="http://www.ajer.org/papers/Vol-8-issue-6/J08065970">http://www.ajer.org/papers/Vol-8-issue-6/J08065970.</a>
25	Nusrat Jahan, Assistant Professor	MHD Effect on Free Convection Heat Transfer in a C-shaped Cavity	Heat Transfer	2019		BUFT Journal of Business and Economics (BJBE)	-----	<a href="https://buft.edu.bd/page/buft_journal&amp;journal=BUFT&amp;volume=5">https://buft.edu.bd/page/buft_journal&amp;journal=BUFT&amp;volume=5</a>
26	Farjana Bilkis, Assistant Professor	Settling time of solid grains in gaseous giant protoplanets	Computational Astrophysics	2021	1	Planetary and Space Science	1.82	<a href="https://doi.org/10.1016/j.pss.2021.105212">https://doi.org/10.1016/j.pss.2021.105212</a>



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27	Farjana Bilkis, Assistant Professor	Segregation of heavy elements in an initial protoplanet	Computational Astrophysics	2020	2	Earth Science Informatics	2.82	<a href="https://doi.org/10.1007/s12145-020-00474-5">https://doi.org/10.1007/s12145-020-00474-5</a>
28	Farjana Bilkis, Assistant Professor	Investigation of generalized shallow water equation for shock wave and abundant solutions using a further extended tanh method	Nonlinear Fluid Dynamics	2020		BAIUST Academic Journal (BAJ)	---	<a href="https://journal.baiust.edu.bd/wp-content/uploads/2021/03/Article-10.pdf">https://journal.baiust.edu.bd/wp-content/uploads/2021/03/Article-10.pdf</a>
29	Farjana Bilkis, Assistant Professor	Travelling wave solution of variable-coefficient Burgers equation with variable-parameter tanh method	Nonlinear Fluid Dynamics	2019	1	International Journal of Scientific and Engineering Research (IJSER)	4.2	<a href="https://www.ijser.org/onlineResearchPaperViewer.aspx?Travelling-wave-solution-of-variable-coefficient-Burgers-equation-with-variable-parameter-tanh-method.pdf">https://www.ijser.org/onlineResearchPaperViewer.aspx?Travelling-wave-solution-of-variable-coefficient-Burgers-equation-with-variable-parameter-tanh-method.pdf</a>
30	Samia Taher, Assistant Professor	Investigation of generalized shallow water equation for shock wave and abundant solutions using a further extended tanh method	Nonlinear Fluid Dynamics	2020	1	BAIUST Academic Journal (BAJ)	---	<a href="https://journal.baiust.edu.bd/wp-content/uploads/2021/03/Article-10.pdf">https://journal.baiust.edu.bd/wp-content/uploads/2021/03/Article-10.pdf</a>
31	Samia Taher, Assistant Professor	Computational Analysis of Blood Flow Through the Human Artery with Axi-symmetric Blockage	Computational Fluid Dynamics	2019	2	International Digital Organization for Scientific Information (IDOSI)	---	<a href="https://idosi.org/cams/4(1)19/5.pdf">https://idosi.org/cams/4(1)19/5.pdf</a>
32	Samia Taher, Assistant Professor	Experimental Evidences from Prisoner's Dilemma and One Shot Games in Duopoly Markets in Bangladesh	Game Theory	2019		IOSR Journal of Mathematics (IOSR-JM)	---	<a href="http://www.iosrjournals.org/iosr-jm/papers/Vol15-issue2/Series-3/D1502032939.pdf">http://www.iosrjournals.org/iosr-jm/papers/Vol15-issue2/Series-3/D1502032939.pdf</a>
33	Samia Taher, Assistant Professor	Existence of Periodic Travelling Waves in a One-Parameter Family of Solutions in the FitzHugh-Nagumo Model of	Nonlinear Fluid Dynamics	2018	1	Jahangirnagar Journal of Mathematics and Mathematical Sciences (JMMMS)	---	<a href="https://www.researchgate.net/publication/336846567_Existence_of_Periodic_Travelling_Waves_in_a_One">https://www.researchgate.net/publication/336846567_Existence_of_Periodic_Travelling_Waves_in_a_One</a>



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		Nerve Cell Dynamics						<a href="#">Parameter_Family_of_Solutions_in_the_FitzHugh-Nagumo_Model_of_Nerve_Cell_Dynamics</a>
34	Syeda Rahimon Naheer, Assistant Professor	A Rapid Spectrophotometric method for the determination of trace level silver using 1,5-diphenylthiocarbazone in aqueous micellar media	Analytical and Environmental Chemistry	2014	1	International Research Journal of Pure and Applied Chemistry		<a href="https://doi.org/10.9734/IRJPAC/2014/8157">https://doi.org/10.9734/IRJPAC/2014/8157</a> .
35	Syeda Rahimon Naheer, Assistant Professor	<a href="#">Biosorption of Cr (III) from aqueous solution using an agricultural by-product jute stick powder: Equilibrium and kinetic studies</a>	Analytical and Environmental Chemistry	2018	1	<a href="#">European Journal of Chemistry</a>		<a href="https://doi.org/10.5155/EURJCHEM.9.3.202-212.1709">https://doi.org/10.5155/EURJCHEM.9.3.202-212.1709</a>
36	Md Abul Hasan Roni, Asst. Professor	Analytical Characterization and Antimicrobial Studies on Muscle Lipid of Silver Ribbon fish (Lepturacanthus savala) of the Bay of Bengal	Natural Products & Drug Discovery	2017	1	International Journal of Scientific & Engineering Research, Volume 8, Issue 1, January-2017		<a href="https://www.ijser.org/researchpaper/Analytical-Characterization-and-Antimicrobial-Studies-on-Muscle-Lipid-of-Silver-Ribbon-fish-Lepturacanthus-savala-of-the-Bay-of-Bengal.pdf">https://www.ijser.org/researchpaper/Analytical-Characterization-and-Antimicrobial-Studies-on-Muscle-Lipid-of-Silver-Ribbon-fish-Lepturacanthus-savala-of-the-Bay-of-Bengal.pdf</a>
37	Md. Abul Hasan Roni, Asst. Professor	A Study on Chemical Characterization and Proximate Composition of Flathead Mullet Fish (Mugil cephalus) of Estuarine Region of the Bay of Bengal	Natural Products & Drug Discovery	2014	1	International Letters of Natural Sciences	0.876	<a href="https://www.researchgate.net/publication/279743097_A_Study_on_Chemical_Characterization_and_Proximate_Composition_of_Flathead_Mullet_Fish_Mugil_cephalus_of_Estuarine_Region_of_the_Bay_of_Bengal">https://www.researchgate.net/publication/279743097_A_Study_on_Chemical_Characterization_and_Proximate_Composition_of_Flathead_Mullet_Fish_Mugil_cephalus_of_Estuarine_Region_of_the_Bay_of_Bengal</a>
38	Md. Abul Hasan Roni, Asst. Professor	Isolation, physico-chemical characterization and antimicrobial studies of liver lipid of sting ray fish (Dasyatis nase) of the Bay of Bengal	Natural Products & Drug Discovery	2015	1	International Journal of Fisheries and Aquatic Studies		<a href="https://www.fisheriesjournal.com/vol2issue3/23.1.html">https://www.fisheriesjournal.com/vol2issue3/23.1.html</a>



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39	Md. Yasir Arafat Arman (Lecturer)	The Institutional Role of Army in Improving Education: A Study on Bangladesh Perspective	Bangladesh Army & Education	2020	1	BAIUST Academic Journal	<a href="https://journal.baiust.edu.bd/wp-content/uploads/2021/03/Article-18.pdf">https://journal.baiust.edu.bd/wp-content/uploads/2021/03/Article-18.pdf</a>
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