

Journal publications (*recognized and refereed journals/proceedings*):

1. Rahman, Md Khalilur and **Parvin, Salma** and Khan, Md. Abdul Hakim, ANALYSIS OF TWO-PHASE FLOW IN THE POROUS MEDIUM THROUGH A RECTANGULAR CURVED DUCT (April 5, 2023). Available at SSRN: <https://ssrn.com/abstract=4410218> or <http://dx.doi.org/10.2139/ssrn.4410218>
2. **S. Parvin** and A. K. Azad, "Photovoltaic Thermal (PVT) System Performance Analysis in Dhaka, Bangladesh for Different Flow Regimes Using Kerosene Oil-Based CNT Nanofluid," 2023 IEEE Conference on Power Electronics and Renewable Energy (CPERE), Luxor, Egypt, 2023, pp. 1-7, doi: 10.1109/CPERE56564.2023.10119533 .
3. A. K. Azad, **Salma Parvin**, Photovoltaic thermal (PV/T) performance analysis for different flow regimes: A comparative numerical study, International Journal of Thermofluids, Volume 18, 2023, 100319, ISSN 2666-2027, <https://doi.org/10.1016/j.ijft.2023.100319> .
4. Md. Khalilur Rahman, **Salma Parvin**, Md. Abdul Hakim Khan, Analysis of two-phase flow through in the porous medium through a rectangular curved duct, Experimental and Computational Multiphase Flow, (Accepted 2023).
5. Afroza Nahar, **Salma Parvin**, M. Hasanuzzaman, Second Law Analysis for Free Convection in an L-Shaped Cavity Filled with Nanofluid, AIUB Journal of Science and Engineering [AJSE], Accepted 2022.
6. **Salma Parvin**, Ayesha Siddiqua and Md. Hasanuzzaman, Numerical Simulation for Nanofluid Flow in a Wall Driven Cavity with Solid Hindrance: Impact of Thermal Conductivity Ratio and Heat Generation, Journal of Nanofluids, Vol. 11, pp. 262–273, (2022). DOI: <https://doi.org/10.1166/jon.2022.1839>.
7. Afroza Nahar, **Salma Parvin**, M. Hasanuzzaman, N.A. Rahim, Thermo-fluid Physiognomies of a Photovoltaic Thermal Collector: A Comparative Study with Different Flow Channel Materials, ASME. *J. Sol. Energy Eng.* (May 26, 2022) doi: <https://doi.org/10.1115/1.4054661>.
8. A. K. Azad, **Salma Parvin**, Bibliometric analysis of photovoltaic thermal (PV/T) system: from citation mapping to research agenda, Energy Reports, Vol. 8, pp. 2699-2711, (2022). <https://doi.org/10.1016/j.egyr.2022.01.182>.
9. **Salma Parvin**, Abrar Islam and Afroza Nahar, Performance Analysis of a Direct Absorption Solar Collector using Different Nanofluids: Effect of Physical Parameters, GANIT: Journal of Bangladesh Mathematical Society, 41(2), 18–33 (2022). <https://doi.org/10.3329/ganit.v41i2.57574>.
10. Fayz-Al-Asad, Md.; Al-Rumman, Md.; Alam, Md. Nur; **Parvin, Salma**; and Tunç, Cemil (R1496) Impact of Electronic States of Conical Shape of Indium Arsenide/Gallium Arsenide Semiconductor Quantum Dots, Applications and Applied Mathematics: An International Journal (AAM), Vol. 16, Iss. 2, Article 14, pp. 1029 –1037, 2021. <https://digitalcommons.pvamu.edu/aam/vol16/iss2/14> .

11. Ammar I. Alsabery, **Salma Parvin**, Mohammad Ghalambaz, Ali J. Chamkha and Ishak Hashim, Convection Heat Transfer in 3D Wavy Direct Absorber Solar Collector Based on Two-Phase Nanofluid Approach, Appl. Sci. 2020, 10, 7265, pp. 1-22; <https://doi.org/10.3390/app10207265>.
12. A Nahar, M Hasanuzzaman, **S Parvin**, Computational Modeling for Photovoltaic Thermal System, ICCA 2020: Proceedings of the International Conference on Computing Advancements, January 2020, Article No.: 51, Pages 1-7; <https://doi.org/10.1145/3377049.3377129>.
13. A. K. Azad, M.M. Rahman, **Salma Parvin**, Mahtab Uddin and M. R. Islam, (2020) Effect of Joule Parameter on Mhd Mixed Convection in an Open Channel with Semi-Circular Heater on the Bottom Wall; ARPN Journal of Engineering and Applied Sciences, 15(1), (2020) 113 – 121.
14. Ayesha Siddiqua and **Salma Parvin**, Heatline analysis for mixed convection flow of nanofluid in a two sided lid-driven cavity with a heat generating block: effect of Reynolds number, AIP Conference Proceedings 2121, 070010 (2019); <https://doi.org/10.1063/1.5115917>.
15. Tanzia Zerine Khan and **Salma Parvin**, Effects of Lewis Number on Two Phase Natural Convection Flow of Nanofluid inside a Square Cavity with an Adiabatic Obstacle, AIP Conference Proceedings 2121, 070007 (2019); <https://doi.org/10.1063/1.5115914>.
16. Abdul Karim, Md. Motahar Hossain, **Salma Parvin**, and Md. Abdul Hakim Khan, Hemodynamic Blood Flow through a Section of Human Artery under the Effect of Applied Magnetic Field, AIP Conference Proceedings 2121, 050010 (2019); <https://doi.org/10.1063/1.5115897>.
17. Afroza Akter and **Salma Parvin**, Numerical analysis of a blood flow model for arterial stenosis in presence of external magnetic field, AIP Conference Proceedings 2121, 100001 (2019); <https://doi.org/10.1063/1.5115932>.
18. **Salma Parvin** and Afroza Akter, Mathematical modelling and simulation of blood flow considering shear rate dependent viscosity through arterial stenosis in presence of magnetic field, American International Journal of Research in Science, Technology, Engineering & Mathematics, Special Issue of 5th International Conference on Mathematical Methods and Computation (ICOMAC -2019), February 20-21, 2019, pp. 373-379.
19. Afroza Nahar, M. Hasanuzzaman, N.A. Rahim, **S. Parvin**, Numerical investigation on the effect of different parameters in enhancing heat transfer performance of photovoltaic thermal systems, Renewable Energy, Vol. 132, pp. 284-295, (2019). <https://doi.org/10.1016/j.renene.2018.08.094>
20. M. A. H. Khan, **S. Parvin** and A. Sultana, A Numerical Study on Acoustic Streaming and Tissue Heating During Magnetic Resonance guided High Intensity Focused Ultrasound Through Blood Vessel with an Obstacle, Proceedings of 3rd Thermal and Fluids Engineering Conference (TFEC), TFEC-2018-21810, pp. 129-141, (2018).

<http://dx.doi.org/10.1615/TFEC2018.cfd.021810>

21. Afroza Akter and **Salma Parvin**, Numerical Analysis of Heat Generation Effect on MHD natural convection flow in a L Shaped cavity, *Journal of Engineering Mathematics and Statistics*, Volume 2 Issue 1, pp. 1-8, (2018).
22. A. Akter, **S. Parvin**, Analysys of Natural convection Flow in a Trapezoidal cavity Containing a Rectangular Heated Body in Presence of External Oriented magnetic Field, *Journal of Scientific Research*, Vol. 10, No.1, pp. 11-23, (2018)..
23. **Salma Parvin**, Ayesha Siddiqua and Md. Elias, Effect of Reynold's Number for Mixed Convection Flow of Nanofluid in a Double Lid Driven Cavity with Heat Generating Obstacle, *Heat and Mass Transfer Research Journal* Vol. 1, No. 1, pp. 79-87, 2017.
24. Afroza Akter and **Salma Parvin**, Numerical Analysis of Heat Generation Effect on Natural Convection Flow in a Trapezoidal Cavity Containing a Rectangular Heated Body, *Journal of Engineering Mathematics and Statistics*, Volume 1 Issue 2&3, pp. 1-15, (2017).
25. **Salma Parvin**, Aysha Sultana, A Computational Study for Investigating Acoustic Streaming and Heating during High Intensity Focused Ultrasound through Blood Vessel with an Obstacle, *AIP Conference Proceedings* 1851, 020054 (2017); doi: 10.1063/1.4984683.
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31. **Salma Parvin** and M.A. Alim, Influence of Mass Flow Rate on Forced Convective Heat Transfer through a Nanofluid Filled Direct Absorption Solar Collector, *International Journal of Mechanical and Mechatronics Engineering*, Vol:11, No:6, pp. 1107-1111, 2017.

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33. **Salma Parvin**, Rehana Nasrin and M.A. Alim, Effect of Solid Volume Fraction on Forced Convective Flow of Nanofluid through Direct Absorption Solar Collector, *Applications and Applied Mathematics: An International Journal*, Special Issue No. 2, pp. 9-21, 2016. <https://digitalcommons.pvamu.edu/aam/vol11/iss3/2/>
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36. **Salma Parvin**, and Ayesha Siddiqua, Heat Line Analysis for MHD Mixed Convection Flow of Nanofluid within a Driven Cavity Containing Heat Generating Block, *AIP Conference Proceedings*, 1754, 050001; doi: 10.1063/1.4958392, 2016.
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51. **Salma Parvin**, Rehana Nasrin, M. A. Alim and N. F. Hossain, Double Diffusive Natural Convection in a Partially Heated Cavity Using Nanofluid: An Analysis, *Global Science and Technology Journal*, Vol. 1. No. 1, pp.123-134, 2013.
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Conference (national and international conferences and seminars):

Proceedings and presentations

1. **Salma Parvin** and Md. Abul Kalam Azad, Photovoltaic Thermal (PVT) System Performance Analysis in Dhaka, Bangladesh for Different Flow Regimes Using Kerosene Oil-Based CNT Nanofluid, *IEEE Conference on Power Electronics and Renewable Energy (CPERE)*, Sonesta St. George Hotel Luxor, Luxor, Egypt, February 19-21, 2023.
2. Afroza Akter, A B M Shahadat Hossain, **Salma Parvin**, “Application of Black Scholes Merton Option Pricing Model in the DSE of Bangladesh”, 1st International Dhaka Science Conference For Women-2023, 15-16 February 2023, Dhaka 1000, Bangladesh (Presentation).
3. Afroza Akter, A B M Shahadat Hossain, **Salma Parvin**, “A Numerical Study of Implementing Options: Bangladeshi Perspective”, A F Mujibur Rahman-Bangladesh Mathematical Society National Mathematics conference-2022, 13-14 January 2023, Dhaka, Bangladesh, Article No-BMS-NC22-CT065, pp-156 (Presentation).
4. A K Azad, **Salma Parvin**, Parametric Analysis on Performance of Nanofluid Based Photovoltaic Thermal (PVT) System in Dhaka, Bangladesh, *INTERNATIONAL CONFERENCE ON MARINE TECHNOLOGY (MARTEC 2022)* · 21-22 December 2022, BUET, Dhaka, Bangladesh.
5. Md. Khalilur Rahman, **Salma Parvin**, Md. Abdul Hakim Khan, Analysis of Two-Phase Flow in the Porous Medium through a Rectangular Curved Duct, *INTERNATIONAL CONFERENCE ON MARINE TECHNOLOGY (MARTEC 2022)* · 21-22 December 2022, BUET, Dhaka, Bangladesh.
6. A K Azad, **Salma Parvin**, Photovoltaic Thermal (PV/T) Performance Analysis for Different Flow Regimes: A Comparative Numerical Study, *1st International Conference on Frontier in Sciences (ICFS-2022)*, organized by Faculty of Science, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh, 11-12 November 2022 (Presentation).
7. Md. Khalilur Rahman, **Salma Parvin**, Md. Abdul Hakim Khan, Magnetohydrodynamic effect analysis for Two-Phase flow in the porous medium through a Rectangular Curved Duct, *1st International Conference on Frontier in Sciences (ICFS-2022)*, organized by Faculty of Science, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh, 11-12 November 2022 (Presentation).
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9. Ayesha Siddiqua and Salma Parvin, Numerical simulation and heatline analysis for flow of nanofluid in a double lid driven cavity containing a heat generating object: Effect of Richardson number, 22 nd *International Mathematics Conference- 2021*, Dhaka University, Dhaka, 10-11 December, 2021(Virtual)(Presentation).
10. A Nahar, M Hasanuzzaman, **S Parvin**, Computational Modeling for Photovoltaic Thermal System, ICCA 2020: Proceedings of the International Conference on Computing Advancements, January 2020, Article No.: 51 Pages 1–7; <https://doi.org/10.1145/3377049.3377129>.
11. **Salma Parvin**, Mathematical Modelling and Numerical Simulation of Blood Flow through a Stenosed Artery in Presence of External Oriented Magnetic Field, Annual Conference of Indian Women and Mathematics (IWM), 2019, 10th June-12th June, 2019 in the Indian Institute of Technology Bombay, Mumbai, India(Presentation).
12. **Salma Parvin** and Afroza Akter, Mathematical Modelling and Simulation of Blood Flow Considering Shear Rate Dependent Viscosity through Arterial Stenosis in Presence of Magnetic Field, International Conference on Mathematical Methods and Computation (ICOMAC 2019), on 20th & 21st February 2019, organized by the PG & Research Department of Mathematics, Jamal Mohamed College(Autonomous), Tiruchirappalli, Tamil Nadu, India.
13. Ayesha Siddiqua and **Salma Parvin**, Heatline analysis for mixed convection flow of nanofluid in a two sided lid-driven cavity with a heat generating block: effect of Reynolds number, The 8th BSME International Conference on Thermal Engineering, (BSMEICTE-2018), 20 – 22 December, 2018, Venue: BUET, Dhaka, Bangladesh.
14. Tanzia Zerine Khan and **Salma Parvin**, Effects of Lewis Number on Two Phase Natural Convection Flow of Nanofluid inside a Square Cavity with an Adiabatic Obstacle, The 8th BSME International Conference on Thermal Engineering, (BSMEICTE-2018), 20 – 22 December, 2018, Venue: BUET, Dhaka, Bangladesh.
15. Abdul Karim, **Salma Parvin**, Md. Abdul Hakim Khan and Dr. Md. Motahar Hossain, Hemodynamic Blood Flow through a Section of Human Artery under the Effect of Applied Magnetic Field, The 8th BSME International Conference on Thermal Engineering, (BSMEICTE-2018), 20 – 22 December, 2018, Venue: BUET, Dhaka, Bangladesh.
16. Afroza Akter and **Salma Parvin**, Numerical analysis of a blood flow model for arterial stenosis in presence of external magnetic field, The 8th BSME International Conference on Thermal Engineering, (BSMEICTE-2018), 20 – 22 December, 2018, Venue: BUET, Dhaka, Bangladesh.
17. Tanzia Zerine Khan and **Salma Parvin**, Two Phase Natural Convection Flow of Nanofluid Inside a Square Cavity with an Adiabatic Obstacle , A F Mujibur Rahman- Bangladesh Mathematical Society, National Mathematics Conference 21-22 December 2018, Venue: University of Dhaka, Dhaka, Bangladesh(Presentation).

18. M. A. H. Khan, **S. Parvin** and A. Sultana, A Numerical Study on Acoustic Streaming and Tissue Heating During Magnetic Resonance guided High Intensity Focused Ultrasound Through Blood Vessel with an Obstacle, 3rd Thermal and Fluids Engineering Conference (TFEC) Fort Lauderdale, FL, USA, March 4–7, 2018.
19. Ayesha Siddiqua and **Salma Parvin**, Effect of solid fluid thermal conductivity ratio on mixed convection flow of nanofluid within a driven cavity containing heat generating block, 20 th *International Mathematics Conference- 2017*, Dhaka University, Dhaka, 8-10 December, 2017(Presentation).
20. Afroza Akter and **Salma Parvin**, Numerical Analysis of Heat Generation Effect on MHD natural convection flow in a L Shaped cavity, 20 th *International Mathematics Conference- 2017*, Dhaka University, Dhaka, 8-10 December, 2017(Presentation).
21. **Salma Parvin**, A Numerical Study of Heat Transfer and Entropy Generation through a Nanofluid-Based Direct Absorption Solar Collector, Symposium for South Asian Women in Mathematics, Kathmandu, Nepal, 12-15 October 2017(Presentation).
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