

Publications of M. A. Alim

** There are **more than 350** Journal and conference articles, **not all but most of those** articles are listed below :

Journal Articles

1. M. A. Hossain and M. A. Alim, Natural convection-radiation interaction on boundary layer flow along a thin cylinder, *J. Heat and Mass Transfer* Vol. 32, 515-520, (1997).
2. M. A. Alim and M. A. Hossain, On forced convection along a vertical cylinder with uniform surface temperature and uniform surface heat flux, *J. Bangladesh Acad. Scie.* Vol. 20, No. 2, pp. 207-216, ISSN: 0378-8121, (1996).
3. M. A. Hossain and M. A. Alim, Natural convection-radiation interaction on boundary layer flow along a thin cylinder, *J. Heat and Mass Transfer* Vol. 32, 515-520, (1997).
4. M. A. Hossain, M. A. Alim, and H. S. Takhar Effect of radiation on Mixed convection boundary layer flow along a vertical cylinder, *Int. J. Applied Mechanics and Engineering*, Vol. 3, pp. 397-404, (1998).
5. M. A. Hossain, M. A. Alim, and D.A.S. Rees, Effects of thermal radiation on natural convection over cylinders of elliptic cross section, *Acta Mechanica* Vol. 129, No. 3-4, pp. 177-186, (1998).
6. M. A. Hossain, M. A. Alim, and D.A.S. Rees, The effect of radiation on Free convection from a porous vertical plate, *International Journal of Heat and Mass Transfer*, Vol. 42, No. 1, pp. 181-191, (1999).
7. M. A. Alim and A. K. M. Sadrul Islam, Separation points of laminar boundary layer flow along a vertical porous plate with exponentially decreasing velocity distribution, *International Journal of , Modelling in Science and Engineering*, Vol.1, pp. 42-50, (2001), <http://www.mii.lt/NA/>.
8. M. A. Alim and W. Malalasekera, Transport and chemical kinetics of H₂/N₂ jet flame: A Flamelet modelling approach with NO_x Prediction, *Journal of Naval Architecture and Marine Engineering*, Vol.1, pp. 33-40, ISSN: 1813-8535, (2005).
9. M. A. Alim, Md. M. Alam and Md. M. K. Chowdhury, Pressure work effect on natural convection flow from a vertical circular cone with suction and non-uniform surface temperature, *Journal of Mechanical Engineering*, The Institution of Engineers, Bangladesh, Vol. ME 36, pp. 6-11, ISSN: 0379-4318, (2006).
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11. Md. M. Alam, M. A. Alim and Md. M. K. Chowdhury, Effect of pressure stress work and viscous dissipation in natural convection flow along a vertical flat plate with heat conduction, *Journal of Naval Architecture and Marine Engineering*, Vol.3, No.2, pp. 69-76, ISSN: 1813-8535, (2006).
12. Md. M. Alam, M. A. Alim and Md. M. K. Chowdhury, Free convection from a vertical permeable circular cone with pressure work and non-uniform surface temperature, *Nonlinear Analysis: Modelling and Control*, Vol. 12, No. 1 pp. 21-32, (2007), <http://www.mii.lt/NA/>.
13. M. A. Alim, Md. M. Alam and Abdullah-Al-Mamun, Joule heating effect on the coupling of conduction with magnetohydrodynamic free convection flow from a vertical flat plate,

Nonlinear Analysis: Modelling and Control, Vol. 12, No. 3 pp. 307-316, (2007)
<http://www.mii.lt/NA/>.

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15. Md. M. Alam, M. A. Alim and Md. M. K. Chowdhury, Viscous dissipation effects with MHD natural convection flow on a sphere in presence of heat generation, *Nonlinear Analysis: Modelling and Control*, Vol. 12, No. 4 pp. 447-459, (2007) <http://www.mii.lt/NA/>.
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21. M. A. Alim, Md. M. Alam and Md. M. K. Chowdhury, Work Stress Effects on MHD Natural Convection Flow Along a Sphere, *Thammasat International Journal of Science and Technology*, Vol. 13, No. 1, pp. 1-10, (2008).
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Velocity, *Journal of Naval Architecture and Marine Engineering*, Vol.5, No.1, pp. 11-18, ISSN: 1813-8535, (2008).

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ii) Some Conerence Presentations:

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345. Presented three research papers on Fluid Mechanics in the Workshop on Mechanics of Continua, Department of Mathematics, Dhaka University, 17-18 Sept. 1996.
346. Presented research paper on Fluid Mechanics in the Nineteenth Bangladesh Science conference, organised by BAAS held at Jahangirnagar University, Savar, Dhaka October 29-31, 1996.
347. Presented a paper in the Eleventh Mathematics Conference, Shahjalal University of Science and Technology (SUST), Sylhet , Bangladesh, 25-27 November, 1997.
348. Presented a paper in the Mini Workshop on Applied Mathematics, Dept. of mathematics, Shahjalal University of Science and Technology (SUST), Sylhet, Bangladesh, 1-3 September, 1998.
349. Presented a paper titled Separation points of mixed convection boundary layer flow along a vertical porous plate with exponentially decreasing free stream velocity in the Int. Conf. on Fluid Mechanics & Heat Transfer (ICFMHT-99), BUET, Dhaka, 15-16 December 1999.
350. Presented a paper titled Free convection flow and heat transfer inside a vertical convergent and divergent enclosure in the 6th APM and International Conference on Mechanical Engineering in the 21st Century, IEB, Dhaka, Bangladesh, Feb. 17-19, 2000.
351. Presented a paper titled Separation points of laminar boundary layer flow along a vertical porous plate with exponentially decreasing velocity distribution in the XIII International Congress on Mathematical Physics (ICMP 2000), 17 - 22 July 2000, ImperialCollege, London, UK.
352. Presented the first year PhD research report on CFD Modelling of Turbulent Combustion and Heat Transfer in the First year research students conference, School of Mechanical and Manufacturing Engineering, Loughborough University, UK, 5 - 6 July, 2001.
353. Presented the PhD research report on CFD Modelling of Turbulent Combustion and Heat Transfer in the 2nd year research students conference, School of Mechanical and Manufacturing Engineering, Loughborough University, UK, May, 2002.
354. Presented a paper titled Viscous dissipation and pressure effects on free convection flow along vertical flat plate with joule heating and heat conduction in the 3rd BSME-ASME International Conference on Thermal Engineering (BSME-ASME ICTE' 06), 20-22 December, 2006, Dhaka, Bangladesh (Paper No. BA-111).
355. Presented a paper titled Pressure Work and Viscous Dissipation Effects on MHD Natural Convection Flow along a Sphere in the 7th International Conference on Mechanical Engineering (ICME2007), 29-31 December, 2007, Dhaka, Bangladesh (Paper No. Th-33).
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360. M. M. Rahman, M. A. Alim and M. A. Sarker, Natural convection in a square cavity with a flush mounted heater: Effect of positions of the heater, The 16th Mathematics Conference of Bangladesh Mathematical Society, BUET, Dhaka, Bangladesh, December 17-19, 2009.
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362. R. Nasrin, S. Parvin and M. A. Alim, Numerical study of variable viscosity and thermal conductivity with Conduction and Joule Heating on MHD Free Convection, The 16th Mathematics Conference of Bangladesh Mathematical Society, 17-19, December, Paper No. 16MC09-110. pp.76, 2009, BUET, Dhaka, Bangladesh.
363. Salma Parvin, Rehana Nasrin, M. A. Alim and N. F. Hossain, Non-darcy forced convection inside a channel using nanofluid, International Conference on Physics of Today (ICPT-2012), BUET, Dhaka, 15-17 March, 2012.
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365. M. Ali, M.A. Alim, R. Nasrin, M.S. Alam, M.Z.U. Chowdhury, Magnetohydrodynamic boundary layer nanofluid flow and heat transfer over a stretching surface, 7th BSME International Conference on Thermal Engineering, 22-24, December, 2016, BUET, Dhaka, Bangladesh.
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2. M. A. Alim, Effect of cold wall on laminar free convection across a horizontal cylinder with part adiabatic surface, *M.Phil Thesis*, Department of Mathematics, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh (2000)
3. M. A. Alim, CFD Modelling of Turbulent Combustion and Heat Transfer, *Ph.D Thesis*, School of Mechanical and Manufacturing Engineering, Loughborough University, UK, (<http://www.lboro.ac.uk/>), (2004).

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