

### Journal Papers

- **Mohaghegh M.R.**, Rahimi A. B., Modeling of Nucleate Boiling Heat Transfer of a stagnation-point flow Impinging on a Hot Surface, *Thermal Sciences*, 2018 ( [DO](#)).

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**Mohaghegh M.R.**, Nanofluids Applications in Solar Energy Systems: A Review, *Journal of Solar Energy Research*, Vol 3 (1), 2018 ( [DO](#)).

-

**Mohaghegh M.R.**, Rahimi A. B., Three-Dimensional Stagnation-point Flow and Heat Transfer of a Dusty Fluid towards a Stretching Sheet, *Journal of Heat Transfer*, 138(11), 2016 ( [DO](#)).

-

**Mohaghegh M.R.**, Malek-Jafarian M., Comparative Analysis of Computational Methods for Periodic Transonic Flows at Low and High Frequencies, *Computational Mathematics and Mathematical Physics*, Vol. 55, (12), 2015 ( [DO](#)).

-

**Mohaghegh M.R.**, Simulation of Compressible Boundary Layer Flow with Heat Transfer and Pressure Gradient, *Computational Thermal Sciences:An International Journal*,7(4),2015 ( [DO](#)).

-

**Mohaghegh M.R.**, Malek-Jafarian M., Periodic Transonic Flow Simulation using Fourier-Based Algorithm, *Journal of Mechanical Science and Technology*, 28 (10), 2014 ( [DO](#)).

-

**Mohaghegh M.R.**, Esfahani A.J., Entropy Generation Analysis of Free Convection from a Constant Temperature Vertical Plate Using Similarity Solution, *Thermal Science Journal*, Vol. 20, (6), 2016 ( [DO](#)).

-

**Mohaghegh M.R.**, Fast and Efficient Solution of Periodic Physical Problems Using Time Spectral Method, *Caspian Journal of Applied Sciences Research*, 3(10), 2014.

-

**Mohaghegh M.R.**, Numerical Solution of linear and nonlinear Periodic Physical Problems using Fourier spectral method, *Journal of Computer Science & Computational Mathematics*, 3(3), 2013 | ([DO](#)).

-

**Mohaghegh M.R.**, Numerical Analysis of Laminar Boundary Layer Equations in Free Convection over a vertical flat plate and Forced Convection over a Wedge, *International Review of Mechanical Engineering*, vol. 5 (4), 2011 ( [DO](#)).

-

**Mohaghegh M.R.**, Malek-Jafarian M., Unsteady Transonic Compressible Flow Simulation, *Journal of applicable and computational sciences in mechanics*, 25 (2), 2014 (In Persian) ( [DO](#)).

-

**Mohaghegh M.R.**, Rahimi A. B., Non-Axisymmetric Three-Dimensional Stagnation-point Flow and Heat Transfer under a Jet Impingement Boiling, *Journal of Heat Transfer*, submitted.

-

Moodi M., **Mohaghegh M.R.**, Numerical and Experimental simulation of flow and heat transfer in shell-and-tube heat exchanger in THTL test loop, *Journal of Heat Transfer Enhanced*, submitted.

-

**Mohaghegh M.R.**, Hagmeijer R., Kalikmanov V.I., Becker-Doring model for Argon nucleation with Tolman correction of surface tension, *Journal of Applied Physics*, under submission.

-

**Mohaghegh M.R.**, Rahimi A. B., Single and two-phase Water Jet Impingement Heat Transfer on a Hot Moving Surface, under submission, 2018.

## Conference Papers

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**Mohaghegh M.R.**, Khazaei H., Introducing and investigation of effective parameters in the aerodynamic and design of vertical axis wind turbine airfoils, *2nd Annual Clean Energy Conference (ACEC)*, International Center for Scienc,Kerman, Iran, 2012 (In Persian).

-

**Mohaghegh M.R.**, Numerical solution of the Burgers' equation using Fourier spectral method and comparison with finite difference method, *7th International Conference on Computational Heat and Mass Transfer*, Istanbul, Turkey July 18-22, 2011.

-

**Mohaghegh M.R.**, Malek-Jafarian M., M.H. Javareshkian, Efficient Time Spectral Algorithm for Time-Periodic Unsteady Problems, *19<sup>th</sup> Annual (International) Conference on Mechanical Engineering-ISME2011*, University of Birjand, Birjand, Iran , 10-12 May, 2011.

-

**Mohaghegh M.R.**, Malek-Jafarian M., Numerical Simulation of Viscid and Inviscid Flow Using Time Spectral Algorithm, *The 10<sup>th</sup> Conference of Iranian Aerospace Society (AERO2011)*, Tarbiat Modares University,Tehran, Iran, 1-3 March, 2011 (In Persian).

Journal of applied physics,