

- Book
- **Material Science and Technology in Aerospace Industries**, Prof. A.N. Akhavan, **A. Ebrahimi**, Publisher: Amirkabir University of Technology, (in press, in Persian).

- Journal Paper

- Low Mach number slip flow through diverging microchannel, V. Varade, V. Duryodhan, A. Agrawal, A.M. Pradeep, **A. Ebrahimi**, E. Roohi. Computers and Fluids, Vol.111, pp. 46-61, 2015. DOI: [10.1016/j.compfluid.2014.12.024](https://doi.org/10.1016/j.compfluid.2014.12.024)
- Numerical Study of Liquid Flow and Heat Transfer in Rectangular Microchannel with Longitudinal Vortex Generators, **A. Ebrahimi**, E. Roohi., S. Kheradmand. Applied Thermal Engineering, Vol.78, pp. 576-583, 2015. DOI: [10.1016/j.applthermaleng.2014.12.006](https://doi.org/10.1016/j.applthermaleng.2014.12.006)
- Numerical Study of Flow Patterns and Heat Transfer in Mini Twisted Oval Tubes, **A. Ebrahimi**, E. Roohi. International Journal of Modern Physics C, Vol.26 (12), 1550140 (18 Pages), 2015. DOI: [10.1142/S0129183115501405](https://doi.org/10.1142/S0129183115501405)
- Flow and Thermal Fields Investigation in Divergent Micro/Nano Channels, **A. Ebrahimi**, E. Roohi. Journal of Thermal Engineering, Vol.2 (2), pp. 709-714, 2016. DOI: [10.18186/jte.53652](https://doi.org/10.18186/jte.53652)
- Heat Transfer and Entropy Generation in a Microchannel with Longitudinal Vortex Generators using Nanofluids, **A. Ebrahimi**, F. Rikhtegar, A. Sabaghan, E. Roohi. Energy, Vol.101, pp. 190-201, 2016. DOI: [10.1016/j.energy.2016.01.102](https://doi.org/10.1016/j.energy.2016.01.102)
- An Investigation on Thermo-hydraulic Performance of a Flat-plate Channel with Pyramidal Protrusions, **A. Ebrahimi**, B. Naranjani. Applied Thermal Engineering, Vol.106, pp. 316-324, 2016. DOI: [10.1016/j.applthermaleng.2016.06.015](https://doi.org/10.1016/j.applthermaleng.2016.06.015)
- DSMC investigation of rarefied gas flow through diverging micro- and nanochannels, **A. Ebrahimi**, E. Roohi. Microfluidics and Nanofluidics, Vol. 21(2), pp. 18, 2017. DOI: [10.1007/s10404-017-1855-1](https://doi.org/10.1007/s10404-017-1855-1)
- Laminar convective heat transfer of shear-thinning liquids in rectangular channels with longitudinal vortex generators, **A. Ebrahimi**, B. Naranjani, S. Milani and F. D. Javan. *Chemical Engineering Science*, Vol. 173, pp. 263-274, 2017. DOI: [10.1016/j.ces.2017.07.044](https://doi.org/10.1016/j.ces.2017.07.044)
- Second Law Analysis of Elliptical Tubes, **A. Ebrahimi**. (Under Preparation)

- Conference Paper
- Flow and Thermal Fields Investigation in Divergent Micro/Nano Channels, **A. Ebrahimi**, E. Roohi, International Conference on Advances in Mechanical Engineering (ICAME'15), 13-15 May 2015, Yildiz Technical University, Istanbul, Turkey.
- Numerical Simulation of Two Interacting Planar Turbulent Jets, **A. Ebrahimi**, E. Roohi, P. Hashemi, 12th Conference of Iranian Aerospace Society(Aero2013), February 2013, Amirkabir university of Technology(Tehran polytechnic), Tehran, Iran.
- Design and Manufacturing of Epan Autonomous Surface Vehicle, A. Moghadas, **A. Ebrahimi**, S. K. Shariati, B. Zakeri, 14th Marine Industries Conference (MIC2012), December 2012, Tehran, Iran.
- Numerical Study and Optimization of Heat Sinks for Cooling Electronic Devices Using Computational Fluid Dynamics, **A. Ebrahimi**, National Conference on New Technologies in Home Appliances, May 2012, Entekhab Higher Education Center – UAST – Entekhab Group, Isfahan, Iran
- Durability Prediction Using Automatic Crack Growth Simulation in Stiffened Panel Structures, **A. Ebrahimi**, M.Mosayebi, 1st Iranian Aircraft Structural Integrity Program Conference, July 2011, Tehran, Iran.