

List of publications:

a. Articles published in peer-reviewed journals

- 1- Asgarian, A., Hossain, M. Z., and Floryan, J. M. (2016) Rayleigh-Bénard Convection Driven by a Long Wavelength Heating. *Theoretical and Computational Fluid Dynamics*. 30: 313-337
- 2- Nobari, M.R.H. and Asgarian, A. (2009) A Numerical Investigation of Flow and Mixed Convection inside a Vertical Eccentric Annulus. *Numerical Heat Transfer: Applications*. 55:1, 77-99

b. Other Peer-reviewed contributions

- 1- Wu1, C.*, Asgarian, A., Chatterjee, S., Girard, B., Paserin, V., Lavallee, F., Bussmann, M., Chattopadhyay, K. (2017) Understanding Water Jet and Metal Stream Interactions During Water Atomization of Steel Powders Using Analytical and CFD Modelling Techniques. Poster at POWDERMET International Conference, Las Vegas, USA
- 2- Jiao, Z.*, Li, D., Asgarian, A., Chatterjee, S., Girard, B., Paserin, V., Lavallee, F., Chattopadhyay, K. (2017) Influence of Apex Angle and Nozzle Design on Energy and Momentum Transfer During the Water Atomization Process. Poster at POWDERMET International Conference, Las Vegas, USA
- 3- Sabeti, J. and Asgarian, A. (2015) Stress analysis of underground pipelines with flexible couplings – unrestrained approach. *Proceedings of 18th International Seminar on Paste and Thickened Tailings*, pp. 277-290, Cairns, Australia.
- 4- Asgarian, A., Bussmann, M., and Park, C. B. (2012) Comparison of the Mixing Performance of Two Cooling Screw Extruders. *Proceedings of 20th Annual Conference of the CFD Society of Canada*, Canmore, Canada.
- 5- Asgarian, A., Hossain, M. Z., and Floryan, J. M. (2011) Natural Convection Due to a Long Wavelength Heating. *Proceedings of American Physical Society (APS): 64th Annual Meeting of the APS Division of Fluid Dynamics*, Baltimore, United States of America.
- 6- Asgarian, A., Hossain, M. Z., and Floryan, J. M. (2011) Numerical Bifurcation Study of Natural Convection in a Layer of Fluid Subject to Spatially Distributed Heating. *Proceedings of American Institute of Physics (AIP) Conference, Volume 1368: International Conference on Applied Mathematics, Modeling and Computational Science (AMMCS)*, pp. 33-36, Waterloo, Canada.
- 7- Asgarian, A., Hossain, M. Z., and Floryan, J. M. (2011) Rayleigh-Benard Convection and Thermal Bifurcation in a Fluid Layer Subject to a Long Wavelength Heating. *Proceedings of 19th Annual Conference of the CFD society of Canada*, Montreal, Canada.
- 8- Nobari, M.R.H., Asgarian, A. (2007) A Numerical Simulation of Flow and Mixed Convection inside a Vertical Eccentric Annulus. *Proceedings of 2nd International Conference on Experimental/ Process/ System Modeling/ Simulation & Optimization (IC-EpsMsO)*, Athens, Greece.
- 9- Nobari, M.R.H., Behzadi, J., Asgarian, A. (2007) Fully Developed Length of Flow in Curved Pipe, *Proceedings of 2nd IC-EpsMsO*, Athens, Greece.

d. Contributions resulting from your participation in industrially relevant R&D activities

- 1- Asgarian, A. and a group of Authors at Hatch Ltd, Canada (2015) Computational Fluid Dynamic modelling of Korea-Zinc dry slag atomizer. A technology development project/report addressing the effects of different operating and design parameters on the quality of air atomized molten slag.
- 2- Asgarian, A. and a group of Authors at Monenco Iran Consulting Engineers Company (2010) *Elementary Design of Thermal Power Plants*, A Technical Book in Persian Language Published by Shiveh in Iran, ISBN:978-964-7214-74-2, This publication resulted from a collaborative R&D work by several engineers at Monenco Iran Consulting Engineers Company.