

### Journal Publications:

1. **S. Alavi**, M. Passandideh-Fard, and J. Mostaghimi, "Simulation of Semi-Molten Particle Impacts Including Heat Transfer and Phase Change", *Journal of Thermal Spray Technology*, **21**(6), pp. 1278-1293, 2012.
2. **S. Alavi**, and M. Passandideh-Fard, "Numerical Simulation of Droplet Impact & Solidification Including Thermal Shrinkage in A Thermal Spray Process", *Journal of Frontiers in Heat and Mass Transfer (FHMT)*, **2**, 2011, [URL](#)

### Conference Publications:

1. **S. Alavi**, M. Passandideh-Fard, and J. Mostaghimi, "Simulation of Fluid Flow and Heat Transfer Including Phase Change during the Impact of Semi-Molten Particles", *ASME 2012 Summer Heat Transfer Conference*, Puerto Rico, USA, 2012.
2. **S. Alavi**, A. Kazemi, and M. Passandideh-Fard, "An Electrowetting-Based Technique for Hot-Spot Cooling of Integrated Circuits: Experimental and Numerical Approach", *ASME 2012 10th International Conference on Nanochannels, Microchannels, and Minichannels (ICNMM2012)*, Puerto Rico, USA, 2012.
3. **S. Alavi**, M. Passandideh-Fard, and M. H. Tafteh, "Electrowetting Actuation for A Sessile Liquid Drop: Experiments and Simulations", *Proceedings of the ASME 9th International Conference on Nanochannels, Microchannels, and Minichannels (ICNMM2011)*, 44632, (pp. 609-618) Edmonton, Canada, 2011.
4. **S. Alavi**, and M. Passandideh-Fard, "Numerical Simulation of Droplet Impact & Solidification Including Thermal Shrinkage in A Thermal Spray Process", *Proceedings of the 14th International Heat Transfer Conference*, 49415, (pp. 731-739), Washington, USA, 2010.
5. **S. Alavi**, and M. Passandideh-Fard, "The Effect of Thermal Shrinkage on Coating Formation in Thermal Spray Processes: A Numerical Approach", *ISME 18th Annual*

*International Conference on Mechanical Engineering, Tehran, Iran, 2010.*