

## **Publications:**

1. Hafiz, U. A., **Hoda, A.** and Asrar, W., A Numerical Investigation of Explicit Pressure-correction Projection Methods for Incompressible Flows, *Engineering Applications of Computational Fluid Mechanics*, Vol. 9, No. 1, 50-65, **2015**
2. **Hoda, A.** and Acharya, S., Development of an Improved k-tau Model for Film Cooling Applications, *ASME Gas Turbine Conference*, Mumbai, India, GT9578, **2012**
3. **Hoda, A.** and Acharya, S., Unsteady RANS Simulation of Film Cooling Jets in a Cross-flow with an Improved K-Tau Model, *ASME Gas Turbine Conference*, Mumbai, India, GT9577, **2012**
4. Mohiuddin, A. K. M. and **Hoda, A.**, Alternative Energy, IIUM Press, ISBN 9789674181581, **2011**
5. **Hoda, A.**, Turbulence Modeling for Film Cooling Flows, *A Dissertation*, Louisiana State University, **2007**
6. Acharya, S., Tyagi, M. and **Hoda, A.**, Flow and Heat Transfer Predictions for Film Cooling, *Annals of the New York Academy of Sciences*, 934(1), 110-125, **2006**
7. **Hoda, A.** and Acharya, S., Prediction of Film Coolant Jet in Crossflow with Different Turbulence Models, *Journal of Turbomachinery*, 122(3), 558-569, **2000**
8. **Hoda, A.**, Acharya, S. and Tyagi, M., Reynolds Stress Transport Model Predictions and Large Eddy Simulation for Film Coolant Jet in Crossflow, *ASME Turbo Expo*, Munich, Germany, **2000**
9. Husain I., Alkhateib M., Jammi M., Mirghani M., Zainudin Z., and **Hoda A.**, Problems, control and treatment of fat oil and grease (fog): a review, *Journal of OLEO science*, 63(8), 747-752, **2014**
10. Husain I., Alkhatib M., Jammi M., Mirghani M., ZainudinZ., and **Hoda A.** , Mechanism of fat oil and grease (FOG) deposit formation in sewer systems, *Advances in environmental biology*, 8(3), 815-820, **2014**
11. Das, A., Justic, D., Inoue, M., **Hoda, A.**, Park, D., Impact of Mississippi River Diversion on Salinity Gradients in a Deltaic Estuary: Ecological and Management Implications, *Journal of Estuarine, Coastal and Shelf Science*, **2012**