Publications

➢ Publications in International Journals

1. **Dutta T.**, Sinhamahapatra K. P., and Bandyopadhyay S. S. **(2013)**, CFD Analysis of Energy Separation in Ranque – Hilsch Vortex Tube at Cryogenic Temperature, ***Journal of Fluids***, 2013, 1-14.
2. **Dutta T.**, Sinhamahapatra K. P., and Bandyopadhyay S. S. **(2011)**, Numerical investigation of gas species and energy separation in the Ranque – Hilsch vortex tube using real gas model, ***International Journal of Refrigeration***, 34, 2118 - 2128.
3. **Dutta T.**, Sinhamahapatra K. P., and Bandyopadhyay S. S. **(2010)**, Comparison of different turbulence models in predicting the temperature separation in a Ranque – Hilsch vortex tube, ***International Journal of Refrigeration***, 33, 783 - 792.
4. Banerjee S., Ghosal S., and **Dutta T. (2008)**, Development of a simple technique for improving the efficacy of fluid flow through the grinding zone, ***Journal of Materials Processing Technology***, 197, 306–313.

➢ Conference Presentations/Publications

1. Kotpalliwar O., Singhal A., **DuttaT.**, Samanta A., Efficiency Analysis of Organic Rankine Cycle, CHEMCON 2018, Chandigarh, India, December **2018** (Accepted).
2. **Dutta T.**, Sinhamahapatra K. P., New Design of a Compact Mixing Chamber of Hot Blast Stove, AISTECH 2017, Nashville, Tennessee, USA, May **2017**.
3. **Dutta T.**, Sinhamahapatra K. P., Bandyopadhyay S. S., Experimental Investigation and CFD analysis of Energy Separation in a Ranque – Hilsch Vortex Tube with Regard to Cold Orifice Diameter, CHEMCON 2010, Chennai, India, December **2010**.
4. **Dutta T.**, Sinhamahapatra K. P., Bandyopadhyay S. S., Parametric Study of Energy Separation in Cryogenic Vortex Tube Using a CFD Model, CHEMCON 2008, Chandigarh, India, December **2008**.
5. **Dutta, T.**, Sinhamahapatra K. P., Bandyopadhyay S.S., CFD Analysis of Energy Separation in a Cryogenic Vortex Tube, Conference on Advances in Space Science and Technology, Kharagpur, India, January **2008**.
6. **Dutta, T.**, Sandilya, P., Bandyopadhyay S.S., CFD Analysis of the Flow Phenomena in a Cryogenic Vortex Tube, CHEMCON 2007, Kolkata, India, December **2007**.
7. **Dutta, T.**, Sandilya, P., and Bandyopadhyay S.S., CFD Analysis of Energy and Phase Separation in a Cryogenic Vortex Tube, International Conference of High Speed Transatmospheric Air & Space Transportation, Hyderabad, India, June **2007**.
8. Ghosh, S., **Dutta, T.**, Sandilya, P., Bandyopadhyay S.S., CFD Analysis of a Cryogenic Vortex Tube Air Separator, CHEMCON 2006, Ankleshwar, India, December **2006**.
9. **Dutta, T.**, Ghosal, S., Banerjee, S., Development of a Simple Technique for Enhancing the Fluid Flow Through the Grinding Zone, AIMTDR Conference 2004, Vellore, India, December **2004**.