Knowledge Dissemination

The following journals/book chapters/conference proceedings had been published from this thesis so far:

International Journals:

1. Singh, G., Saini, D., Yadav, N., Sarma, R., Chandra, L., and Shekhar, R. (2015). Dust deposition mechanism and cleaning strategy for open volumetric air receiver based solar tower sub-systems. *Energy Procedia*, *69*, 2081-2089.
2. Singh, G., Saini, D., and Chandra, L. (2016). On the evaluation of a cyclone separator for cleaning of open volumetric air receiver. *Applied Thermal Engineering*, *97*, 48-58.
3. Boddupalli, N., Singh, G., Chandra, L., and Bandyopadhyay, B. (2017). Reprint of: Dealing with dust–Some challenges and solutions for enabling solar energy in desert regions. *Solar Energy*, *154*, 134-143.
4. Singh, G., and Chandra, L. (2018). On the flow stability in a circular cylinder based open volumetric air receiver for solar convective furnace. *Energy Procedia*, *144*, 88-94.
5. Singh, G., Dhurwe, P., Kumar, R., Kumar, L., Vaghela, N., and Chandra, L. (2018). A step toward realizing open volumetric air receiver based systems in desert regions. *INAE Letters*, 1-9.
6. Singh, G., Kumar, V., Chandra, L., Shekhar, R., and Ghoshdastidar, P.S. (2019). One-dimensional zonal model for the unsteady heat transfer analysis in an open volumetric air receiver. *Journal of Thermal Science and Engineering Applications – ASME.* (Submitted)

Book Chapters:

1. Singh, G., Saini, D., Chandra, L., and Shekhar, R. (2017). Design of a cyclone separator for cleaning of dust from volumetric air receiver. In *Fluid Mechanics and Fluid Power–Contemporary Research* (pp. 83-93). Springer, New Delhi.
2. Singh, G., Kumar, R., Dixit, A., and Chandra, L. (2018). Thermal and materials perspective on the design of open volumetric air receiver for process heat applications. In *Applications of Solar Energy* (pp. 113-127). Springer, Singapore.
3. Singh, G., Luque, S., González-Aguilar, J., Romero, M., and Chandra, L. (2018). Open volumetric air receiver: Current status, challenges and innovative Solutions. *Encyclopedia of Renewable and Sustainable Materials*. doi:10.1016/B978-0-12-803581-8.11263-9.

Conference proceedings:

1. Singh, G., and Chandra, L. (2017). Detrimental Effects of Dust Deposition in Pores of an Open Volumetric Air Receiver. In: *ISES Conference Proceedings,* doi:10.18086/swc.2017.04.14.
2. Singh, G., Dhurwe, P., Kumar, R., Kumar, L., Vaghela, N., and Chandra, L. (2018). A Step Towards Realizing Open Volumetric Air Receiver Based Systems in Desert Regions. *Springer proceedings in energy*, In: ICAER 2017 (Accepted, To appear).
3. Singh, G., Kumar, V., Chandra, L., Shekhar, R., and Ghoshdastidar, P.S. (2019). Development of a one-dimensional zonal model for the evaluation of an open volumetric air receiver. IHMTC IIT Roorkee. (Accepted)