

Rohit Khargotra

Research Scholar

Department of Material Science and Chemical Engineering

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ACADEMIC DEGREES

- 08/2017** **M.Tech in Thermal Engineering**
Title of thesis: *Enhancement of heat transfer rate using flat plate solar water heater based on coil-spring turbulator.*
University Institute of Engineering and Technology, Kurukshetra University, India.
- 08/2014** **B.Tech. in Mechanical Engineering**
International Institute of Engineering and Technology, Kurukshetra University, India.

WORKPLACES

- 2014–2015** **Graduate Apprentice Trainee**
Reckitt Benckiser, (August 2014- August 2015), Jammu Kashmir, India
- 2020 – Now** **Ph.D. Student**
Pannonia University, Faculty of Mechanical Engineering:
Department of Material Science and Chemical Engineering.

RESEARCH INTERESTS

- Renewable Energy Technologies, Energy Engineering, Energy Conversion, Solar Energy, Solar Technologies, Solar Collector, Break Friction Composite

LANGUAGES

- English: writing, reading, speaking (B₂)
- Hindi: writing, reading, speaking C₂ (native)

SOFTWARES

- Solid Works

PUBLICATIONS

1. Rohit Khargotra, Sushil Kumar, Raj Kumar, Influence of Hindrance Promoter on the thermal augmentation factor of Solar Water Heater (An experimental Study), *Renewable Energy*, 2020 (<https://doi.org/10.1016/j.renene.2020.08.146>) (Cite Score: 11.2 and Impact Factor: 8.001).
2. Rohit Khargotra, Raj Kumar, Comparative study of Natural and Forced Circulation of Solar Water Heater: A Review, *International Journal of Advanced Science and Technology*, 2020, 29(3s), 2054-2077.
3. Rohit Khargotra, Sushil Kumar, Raj Kumar, Impact of Perforated shapes in delta type Hindrance Promoter on Thermo-hydraulic performance of Solar Water Heating System (An Experimental Study), *Case Study in*

Thermal Engineering, 2020, <https://doi.org/10.1016/j.csite.2020.100831> (Cite Score: 4.7 and Impact Factor: 4.010).

4. Prateek Guleria, Abhilash Pathania, Rohit Khargotra, A review on value stream mapping in lean manufacturing system, *International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)*, 2019.
5. Rohit Khargotra, Sunil Dhingra, Ranchan Chauhan, Tej Singh, Performance investigation and comparison of different turbulator shapes in solar water heating collector system, *American Institute of Physics (AIP)*, May 2018, (DOI: [10.1063/1.5033173](https://doi.org/10.1063/1.5033173)).
6. Khargotra, R., Dhingra, S., Chauhan, R., Batra, D., Bhardwaj, M., Efficiency evaluation and comparison of different turbulator shapes in solar water heating collector system, *International Journal of Mechanical and Production Engineering Research and Development*, 2018, 8(1), pp. 697–702, IJMPERDFEB201876.
7. Rohit Khargotra, Effects of Inserts Coil-Spring Turbulator on Thermal Efficiency of Solar Flat Plate Liquid Collectors, *International Journal of Scientific and Technical Advancements*, 4 (2018) 44-43 ISSN: 2454-1532.

Conference papers in proceedings:

1. **Rohit Khargotra et al.**, 2nd International Conference on Condensed Matter and Applied Physics (ICC 2017), 24-25 November, 2017, Govt. Degree College, Bikaner, Rajasthan, India.
2. **Khargotra et al.**, International Conference on Innovative Research in Engineering Computers and Sciences (IRECS-2018), 19-21 January, 2018, Universal Research Foundation New Delhi-110059, India.
1. **Rohit Khargotra et al.**, International Conference on Computational Methods, Simulation and Optimization, 22-24 June, 2018, Asian Institute of Technology, Bangkok, Thailand.