Email: hafiz.ali@kfupm.edu.sa
Contact: +966-138601379

Dr. Hafiz Muhammad Ali

Associate Professor

Mechanical Engineering Department & Interdisciplinary Research Center for Renewable Energy and Power Systems (IRC-REPS), King Fahd University of Petroleum & Minerals, Saudi Arabia

Executive Summary:

Dr. Hafiz Muhammad Ali, currently working as an associate professor of Mechanical Engineering at King Fahd University of Petroleum and Minerals, Saudi Arabia. His fields of research are thermal sciences and heat transfer with focus on electronics cooling, condensation, nanofluids, heat transfer devices, and thermal management. Over the span of several years, he supervised numerous undergraduate and postgraduate students and his work produced more than 230 papers featured in various reputed international journals. He has participated at several international and national conferences as an invited speaker and delivered various keynote talks.

Education:

- ❑ Postdoc Mechanical Engineering [University of California, 2016]
- ❑ PhD Mechanical Engineering [Queen Mary University of London, 2011]

Distinguished Projects

- *Project title* Condensate Retention on Horizontal Pin-Fin Tube including the effect of Vapour Velocity (PI), KFUPM, Saudi Arabia
- *Project title* Thermal Performance Analysis of metallic oxide nano fluids through compound parabolic trough solar collector (Co-PI), NRPU, HEC, Pakistan
- *Project title* Development and Experimentation of Nanofluids Single Phase Heat Transfer for Electronic Devices (PI), UET Taxila, Pakistan.
- *Project title* Heat Transfer Enhancement of Phase Change Materials (PCMs) through Metal Foams and Nano-particles (PI), UET Taxila, Pakistan.
- *Project title* Investigation of Retention Angle on Enhanced Three-Dimensional Tubes (PI), UET Taxila, Pakistan.
- *Project title* Experimental Performance Investigation of a Solar Assisted Hybrid (Solar & Waste Heat) Absorption Chiller for Air Conditioning (Co-I), UET Taxila, Pakistan.
- *Project title* Performance Investigation of Maisotsenko-Cycle (M-Cycle) using Different Configurations of Heat and Mass Exchanger (Co-I), UET Taxila, Pakistan.

Research Summary

- Number of Published Papers: 240
- Citations : 7200
- H-Index : 48
- Book Chapters: 10
- Books: 3

Award and Recognitions

- Highly Cited Researcher Award in the Field of Engineering 2021 by Web of Science Clarivate.
- Research Productivity Award (RPA) by Pakistan Council of Science and Technology (PCST) (16-17).
- Best Young Research Scholar Award 2017 in Engineering Category in 7th HEC Outstanding Research Awards, Higher Education mission, Government of Pakistan (17).
- Associate Editor, Heat Transfer Engineering (Taylors & Francis)
- Associate Editor, Journal of Thermal Analysis and Calorimetry (Springer)
- Member of Editorial Board, International Journal of Thermofluids (Elsevier)
- Member of International Advisory Board, Journal Thermal Science
- Member of Editorial Board, Strojniski vestnik - Journal of Mechanical Engineering

Skills and Expertise

- Condensation heat transfer
- Thermal management of electronics and equipment
- Phase Change Materials for thermal management
- Nanofluids heat transfer