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Prof. Dr. Mohammad Alghoul Senior Research Scientist

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

Executive Summary

Dr. Mohammad Alghoul involved in the field of solar energy for more than 18 years. After his PhD, he worked many years with the solar energy research institute, the National University of Malaysia, Malaysia. Then he joined the Kuwait Institute for Scientific Research for two years. He is presently a senior research scientist at IRC-REPS, Research Institute, KFUPM since 2017. Dr. Alghoul has been a Professor of solar Energy since 2013. Project Leader and Co-PI of many funded projects. Conduct research on: < active, passive>, <solar PV, solar thermal, Solar buildings>, <design, modeling, materials, systems>.

Education

- Ph.D. Physics (Solar Energy)
- M.Sc. Physics (Solar Energy)
- B.Sc. Major: Physics, Minor: Mathematics.

Distinguished Projects

- Reducing high PV module temperature by enhancing heat dissipation using different passive approaches under harsh hot climate of KSA
- Development of compact dual purpose solar thermal adsorption system for continuous refrigeration and domestic water heating
- Exploring the power conversion efficiency of thermoelectric generators using common waste heat
- Investigation on characterization of outdoor human thermal comfort within a complex urban environment
- Development of standalone solar PV powered water reverse osmosis desalination system
- Daylighting characteristic of double skin façade windows for low energy buildings

Research Summary

- Published articles: 160 papers
- Citations @ google scholar:6232
- H-Index @ google scholar: 41
- Number of Patents:-
- Books etc.:-

Award and Recognitions

- Research Innovation Awards (Solar cells and PV application research group)
- Research Innovation Awards (Solar Thermal Research Group)
- Distinguished Service Award
- Highly Commended Paper Awards

Skills and Expertise

Supervised so many postgraduate students, taught undergraduate/ postgraduate students, editorial-board member of journal, committee member of many panels, workshop/seminar leadership, establishing new clusters of research groups(solar thermal, Solar cells & PV applications, low energy architecture); contributed to staff/students development. He is researching on PV systems, water desalination, cooling, heat pumps, energy storage, heating, drying, solar air collectors, (PV/T) collectors, modelling of solar/wind resources, daylighting and building energy saving. He is involved in other research areas i.e. wind, hydro and environment.