

# Engr. Khurram Khan

Lab Engineer (Department of Electrical and Computer Engineering)

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## Education

- M.S.c (2016): Electrical Engineering, University of Engineering and Technology, Taxila, Pakistan. Thesis title: Design and Implementation of MPPT Charge Controllers for Commercially Available Photovoltaic Cell Technologies.
- B.S.c. (2009): Electrical Engineering (Electronics), Federal Urdu university of Arts, Sciences and Technology, Islamabad. Thesis title: Human Tracking systems using RFID

## Experience

- 2016 to 2017, worked as Faculty member in National University of Science and Technology (NUST), Islamabad.
- 2018 to 2019, worked as Lecturer (BPS-18) in department of Electrical Engineering of Federal Urdu University of Arts Science & Technology (FUUAST), Islamabad.
- 2011 to 2018, worked as Junior Lecturer / Lab Engineer (BPS-17) in department of Electrical Engineering of Federal Urdu University of Arts Science & Technology (FUUAST), Islamabad.
- 2010 – 2011, worked as Trainee Engineer in National Power control center (NPCC, NTDC) Islamabad

## Projects & Awards

- NRP grant (National Research Program for Universities), 2018-2020 (1.8M Pak-Rupees) Title: Molecular screening and the development of diagnostic kit against Hepatitis delta virus circulating in Pakistani population.

## Patent & Publications

04 International Publications in ISI indexed journals, impact factor of **3.187**:

### International Journal Publications

- “Effect of Cu<sub>2</sub>O hole transport layer and improved minority carrier lifetime on the efficiency enhancement of Cu<sub>2</sub>NiSnS<sub>4</sub> based experimental solar cell”, J. Renew. Sustain. Energy. 10(4) (5 July 2018) 043502. doi:10.1063/1.5037471. **Impact Factor: 1.511**
- “Efficiency enhancement of CH<sub>3</sub>NH<sub>3</sub>SnI<sub>3</sub> solar cells by device modeling”, J. Electron. Mater. 47(9) (Sep 2018) 5275–5282. doi:10.1007/s11664-018-6406-3. **Impact Factor: 1.676**
- “Effect of MAPbBr<sub>3</sub> HTL and CBD deposited Cd<sub>1-x</sub>Zn<sub>x</sub>S ETL band offset on lead halide perovskite solar cell”, Mater. Focus. 7(5) (Oct 2018) 610–616. doi:10.1166/mat.2018.1555.
- “Modeling of Existing and Candidate Hydro Power Plants Generation Expansion Planning using Wien Automatic System Planning-IV Model” Journal of Basic and Applied Scientific Research, ISSN 2090-4304, J. Basic. Appl. Sci. Res., 3(12)119-133, 2013.

### International Conference Publications

- “Smart Grid Technology Management System with Emphasis on Increasing the Inverters Efficiency”, NUML Journal of Management and Technology, December 2012. ISSN 1997-4507
- “Overall Control System and Energy Management of an Inverter Based Smart Grid”, NUML Journal of Management and Technology, December 2012. ISSN 1997-4507