

Sami Ullah

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OBJECTIVES

To become a good researcher in field of Photovoltaic, metal oxide nanostructures, and advance materials. To establish a Photovoltaic research lab at renewable energy department UoB after completing PhD.

EDUCATION AND TRAINING

Sep 2018 – Current **PhD in Physics (Photovoltaics and advance Materials)**

(Department of Physics University of Balochistan Quetta, Pakistan)

May-2014 - Jun-2016 **MS Physics (Nanotechnology and Nanosciences)**

(Department of Physics University of Balochistan Quetta, Pakistan)

PROFESSIONAL EXPERIENCE

Oct-2009 – Current **University Teaching Professional (Undergraduate level)**

(Department of Physics, University of Balochistan Quetta, Pakistan)

Oct-2017 – Current **Postgraduate Researcher at Nanotech Lab**

Department of Physics University of Balochistan Quetta, Pakistan.

Dec-2021 – Current **Visiting Researcher at Chimie ParisTech – CNRS**

Laboratory of Materials for Photonics and OptoElectronics, Paris France

Oct-2019 – Aug-2020 **PhD Guest researcher at Slovak Academy of Sciences**

Institute of Physics, Department of Multilayers and Nanostructures, Bratislava Slovakia.

Mar-2015 - Mar-2016 **Membrane Technology Group Researcher at Nanotech Lab**

(Department of Physics University of Balochistan Quetta, Pakistan)

Mar-2014 - Dec-2015 **Nanotech-Lab Development**

(Department of Physics University of Balochistan Quetta, Pakistan)

SKILL AND EXPERINCE

Lab Proficiency Perovskite solar cell fabrication (n-i-p/p-i-n), semiconductors (Al_2O_3 , ZnO, TiO_2 and SnO_2) nanostructures growth, thin film deposition, membrane technology, device fabrication and characterization.

Characterization Tools Characterization tools includes, AFM, SEM, XRD, UV-Visb spectroscopy, Microscopy, Solar Simulator etc.

Programming Pic Microcontroller and Microprocessor Competent with Pic microcontroller and used during development of Nanotech-Lab for research work.

I have also experience of Microprocessor interfacing for lab instruments, home automation and industrial card interfacing.

Team Leadership Skills and Achievements

1. Excellent speaking and problem solving skills, especially when comes to team leadership.
2. Team leader of Innovative Innovation Summit at University of Balochistan Quetta, Pakistan-2016.
3. Leader of Pic-Microcontroller based science projects (2013).
4. Member of Organizing Committee of annual inter universities sports competition for final year MS.c students (2012).
5. Project Leader in inter Universities Science competition (2011).

Skills

SCAPS (1D) Solar Cell Simulation

Assembly Language
Pic Basic Pro (C/C++)

Solid work
Matlab R2010
SPSS

Multisim
Proteus
Pic Micro-Controller
Visual Designer

RESEARCH PUBLICATION

- JOURNAL(s)**
1. Ayaz, Muhammad; Kasi, Jafar Khan* + ; Kasi, Ajab Khan; Bokhari, Muzamil; Sohail, Muhammad; Samiullah and Samiullah (2021). *Natural Plant Trifolium Pratense, Mirabilis Jalapa and Bassia Scoparia Extract Used as Photosensitizer in Dye Sensitized Solar Cell*. Iranian Journal of Chemistry and Chemical Engineering (IJCCE).
 2. Samiullah, A.K. Kasi & J.K. Kasi. (April 2016). *Growth of ZnO Nanoneedles by Thermal Oxidation of Metallic Zinc Microparticles in Air*. International Journal of Chemical Engineering (IJCE) 3 (1).
 3. Samiullah, A. K. Kasi, J. K. Kasi. (2015). *Hydrothermal Growth of ZnO nanorods on Zinc Microspheres by Sol-gel Seeded Method*. Pakistan Journal of Science & Technology.
 4. Naqeeb Ullah Kakar, Jafar Khan Kasi, Ajab Khan Kasi, Samiullah (2018), *Production of biogas as an energy source in colder area, using flat plate thermal collector*, Techno-Science vol. 1, no. 2-Special Issue p. 29-35.
 5. Muhammad Tariq, Jafar Khan Kasi, Samiullah, & Ajab Khan Kasi (2018). *Fabrication of ZnO Nanorods Based Biosensor via Hydrothermal Method*. International Journal of Chemical and Materials Engineering, p, 571-574.

- CONFERENCE(s)**
1. 3rd International Conference on Advances in Applied Science and Environmental Technology (ASET 2015), Bangkok, Thailand, Dec-2015.
 2. 2nd Conference on Frontiers of Nanosciences and Nanotechnology, at PINSTECH, Islamabad, Pakistan, Sep-2015.
 3. 2nd Annual Computational Science Conference, International Islamic University Islamabad Pakistan, Oct-2013.
 4. Muhammad Ali, Jafar Khan Kasi, Ajab Khan Kasi, Samiullah, 1st International conference on Material Sciences and Nanotechnology (ICMSN-2018).
 5. Samiullah, Ajab Khan Kasi, Jafar Khan Kasi 1st International conference on Material Sciences and Nanotechnology (ICMSN-2018).

TECHNICAL REPORTS PRESENTATION AND COURSES

- Presentation(s)**
1. Presentation on “*Interface Engineering of Perovskite based solar cell and its challenges*” at University Balochistan Quetta, Pakistan.
 2. Presented in seminar on “*Oxidation of Metallic Zinc microspheres*” at University of Balochistan Quetta, Pakistan.
- Nov-2015**
3. Presentation Lecture to MS scholars on “*Narrow bandgap semiconductor materials and its applications*” Department of Physics UoB Pakistan.
 4. Presented a project in Innovation Summit on “*Nanotech-Lab Development from local resources*”

ACHIEVEMENTS AND AWARDS

- May-2017**
1. Awarded best Technology award for making Thermal evaporator and Plasma Sputter from local resources at 2nd Innovation to innovative summit 2017, UoB Quetta Pakistan.
- May-2016**
2. Project winner in “*Innovation to Innovative Summit*” on Nanotech-Lab Development from local resources”.
- Sep-2015**
3. 1st Position in Nanostructured Images Competition, Pakistan Institute of Nuclear Sciences & technology Islamabad (PINSTECH).
- Oct-2013**
4. 1st Position in 2nd Annual Computational Science Conference, International Islamic University Islamabad Pakistan.

REFERENCES

- DR. AJAB KHAN KASI** Ph.D. (Mechatronics), Asian Institute of Technology (AIT), Thailand. 2012.
(Associate Professor and Head of Physics Department)
Profile: [http://www.uob.edu.pk/physics/CV_Ajab%20\(05-03-14\).pdf](http://www.uob.edu.pk/physics/CV_Ajab%20(05-03-14).pdf)
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