



Afzal Khan

afzal76khan@gmail.com
afzal_khan@upesh.edu.pk
Mobile: 0092 344 414 9879
Date of Birth: 12 Feb 1976
Place of Birth: Swat, Pakistan

Address:

Department of Physics
University of Peshawar
25120 Peshawar, Pakistan.
Phone: 0092 91 92 16 727
Fax: 0092 91 92 16 728

Education: **2016 (Postdoc)** Metallic nanowire networks for photovoltaic applications. UGA Grenoble, France
2011 (Ph.D) P-type Transparent Conducting Oxides Thin film. INP Grenoble, France
2007 (MS) Physics of Materials and Nanostructures. UJF Grenoble, France
1999 (M.Sc) Physics, University of Peshawar, Pakistan

Employment: 1. Associate Professor of Physics, University of Peshawar, Since **30/01/2024 till date**
2. Assistant Professor of Physics, University of Peshawar, from **19/12/2011 to 30/01/2024**
3. Lecturer in Physics, University of Peshawar, from **6/02/2002 to 18/12/2011**

Administrative Experience: 1. Coordinator BS- 4 years Program at the department of Physics, University of Peshawar from **February 2014 to December 2016**.
2. Coordinator Physics Alumni of the University of Peshawar.
3. Cultural coordinator Pak-France Alumni Network, Peshawar chapter.

Expertise: Thin films deposition, MOCVD, Resistive heat coating, Spin coating, Spray coating, Precursor preparation, Annealing, SEM, XRD, FTIR, Raman Spectroscopy, Optical Microscopy. Van der Pauw technique, Density functional Theory etc.

Research Visits: 1. One month collaborative research work at LMGP, Grenoble France (**Nov-Dec 2013**)

B.S/MSc (Groups)		M.Phil/MS (Students)		PhD (Students)	
Completed	In progress	Completed	In Progress	Completed	In progress
30	1	20	5	1	3

International impact factor Journals			Conferences	
Published	Accepted	Under Review	International	National
49	0	2	6	4

International		National	
PI	Co-PI	PI	Co-PI
0	0	1	1

Grant Details: 1. National Research Program for Universities (NRPU) by the Higher Education commission (HEC), Pakistan. (**NRPU/20-8815**)
2. National Research Program for Universities (NRPU) by the Higher Education commission (HEC), Pakistan. (**NRPU/20-3118**)

Collaboration: 1) Laboratoire des Matériaux et du Génie Physique (LMGP) Grenoble, France
2) Department of Physics, UET Lahore
3) Department of Physics, Islamia college university, Peshawar
4) Department of Chemical Engineering, UET Peshawar.
5) National Institute of Laser & Optonics (NILOP) Islamabad

International Conferences

1. **A. Khan** C. Jimnez, O. Chaix, H. Roussel, J.L. Deschanvres, Electro-optical Properties of Ba doped SrCu₂O₂ thin film deposited by MOCVD, **MRS Spring Meeting, April 1-5, 2013, San Francisco, USA**
2. **A. Khan** C. Jimnez, O. Chaix, P. Chaudouet, H. Roussel, L. Rapenne, J.L. Deschanvres, Synthesis of Strontium Cuprate (SrCu₂O₂) by MOCVD as a P-type Transparent Conducting Oxide Thin Film, **20th ISAF-PFM conference, July, 24-27, 2011, Vancouver, Canada.**
3. **A. Khan**, J.L Deschanvres, O. Chaix, C. Jimenez, H. Roussel, L. Rapenne, E. Chikoidze, M. Modreanu, B. Servet. Study of the Optical and Electrical Properties of SrCu₂O₂ Thin Films Deposited by MOCVD, **MRS Fall meeting, Nov 30- Dec 4, 2009, Boston, USA.**
4. **A. Khan**, J.L. Deschanvres, O. Chaix, C. Jimenez, H. Roussel, E. Chikoidze, M. Modreanu, B. Servet, Synthesis of SrCu₂O₂ thin films by MOCVD and study of the annealing conditions, **EMRS Spring Meeting” June 8-12, 2009, Strasbourg, France.**
5. J.L. Deschanvres, O. Chaix, H. Roussel, **A. Khan**, C. Jimenez, B. Servet, M. Modreanu, Pathway for the formation of SrCu₂O₂ during the annealing of thin films in Sr-Cu-O system. **Electroceramics XI” conference, Aug 31-Sept 4, 2008, Manchester, UK.**
6. J.L Deschanvres, C. Jimenez, **A. Khan**, C. Millon , H. Roussel , B. Servet , O. Durand, M. Modreanu Study of the growth conditions of SrCu₂O₂ thin films deposited by injection MOCVD, **EMRS fall Meeting, September 17-21, 2007, Warsaw Poland.**
Collaboration: 1) Laboratoire des Matériaux et du Génie Physique (LMGP) Grenoble, France

National Conferences

1. **A. Khan**, C. Jimmnez, J. L. Deschanvres, In-situ Raman and XRD study of chemical phase transitions of Sr-Cu-O thin film during annealing. **Frontiers in Physics, University of Peshawar 2013**
2. **A. Khan**, C. Jimmnez, J. L. Deschanvres, Annealing effect on the chemical phase transformation of Sr-Cu-O thin films. **Materials 2011, University of Peshawar 2011.**
3. **A. Khan**. C. Jimmnez, J. L. Deschanvres, Electro-optical properties of SrCu₂O₂ thin films, **Workshop on nanomaterials PINSTECH, Islamabad December 2011.**
4. **A. Khan**, C. Jimmnez, J. L. Deschanvres, Chemical Phases of Sr-Cu-O thin films deposited by MOCVD. **Where industry and academia meet. University of Peshawar October 2007.**