

**Dr. Imran Sadiq Khan**  
**COE in Solid State Physics, University of the Punjab,**  
**Lahore, Pakistan.**

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***PERSONAL DATA***

|                         |   |
|-------------------------|---|
| Father's Name:          | Sadiq Muhammad Khan   |
| Date of Birth:          | March 07, 1982  |
| Nationality:            | Pakistani   |
| Religion:               | Islam   |
| Marital Status:         | Married   |
| National I.D. Card No.: | 32301-3108905-1   |
| Domicile:               | Muzaffar Garh   |
| Present Address:        | COE in Solid State Physics, University of the Punjab,<br>Lahore, Pakistan |
| Permanent Address:      | Raza Colony, Chani Goth Road, Ali Pur, Distt. Muzaffar<br>Garh            |

***EDUCATION***

**Ph.D.** Physics, Bahauddin Zakariya University, Multan, Pakistan  
**M.Phil.** Physics, Bahauddin Zakariya University, Multan, Pakistan  
**M.Sc.** Physics, Bahauddin Zakariya University, Multan, Pakistan  
**B.Sc.** Bahauddin Zakariya University, Multan, Pakistan

***CURRENT STATUS***

Working as ***Assistant Professor*** on tenure track system (TTS) at Centre of Excellence in Solid State Physics, University of the Punjab, Lahore, Pakistan

***TITLE OF THESIS***

**M.Phil.:** "Characterization of Sr-based W-type hexagonal ferrites prepared by sol-gel method".

**Ph.D.:** "Influence of rare earth elements on synthesis and characterization of hexagonal ferrites for high frequency applications".

***PROFESSIONAL PROFILE***

***TEACHING EXPERIENCE***

**2015 to date** COE in Solid State Physics, University of the Punjab, Lahore, Pakistan

**2009 to 2011** NFC Institute of Engineering and Technology, Multan, Pakistan

## ***TEACHING COURSES (Undergraduate)***

- Waves & Oscillations
- Electricity and Magnetism
- Basic Electronics
- Modern Physics

## ***(M.Phil and Ph.D level)***

- Chemical Synthesis of Nanostructures
- Introduction to magnetism and magnetic materials
- Applications of nanostructures

## ***LABORATORY COURSES (Undergraduate)***

- Applied Physics lab
- Applied Physics and Mechanics lab

## ***(M.Phil and Ph.D level)***

- Chemical Synthesis and Simulation lab

## ***RESEARCH EXPERIENCE***

- Experimental work in fabrication and characterization of Hexagonal ferrites for high frequency applications at Ferrites lab, Department of Physics, B.Z. University, Multan.
- Experience of research under the supervision of “**Prof. Dr. Evgeny V Rebrov**” in “The Centre for theory and applications of Catalysis (CenTACat)” lab, Queen's University, Belfast, UK.
- Working as laboratory incharge in School of Physical Sciences (SPS), P.U. Lahore
- Experimental work in different laboratories of COE in Solid State Physics, P.U. Lahore.

## ***RESEARCH SUPERVISION***

- Currently supervising three M. Phil research students.

## ***EQUIPMENT USED/ HANDLED***

- Ultrasonic bath
- Fume hood
- High Temperature Furnaces
- X-Rays Diffractometer
- Fourier Transform Infrared Spectrometer (FTIR)
- FESEM

- HRTEM
- Vibrating Sample Magnetometer (VSM)
- Impedance analyzer
- Probe station
- Wave guides
- Vector Network Analyzer

### **MEMBER SOCIETIES**

- Member, Zakariyan Alumini Association of Physicist (ZAAP), B.Z.U, Multan

### **INTERNATIONAL REVIEWER**

- Journal of Alloys and Compounds
- Journal of Material Science: Materials in Electronics

### **SEMINARS/ CONFERENCES**

- International conference on materials and simulations in 2012 (BZU Multan)
- International conference on materials simulations and modeling in 2013 (University of Malakand, KPK, Pakistan)
- International Conference on Solid State Physics in 2013 (CSSP University of the Punjab, Lahore)
- International Symposium on Advanced Materials (ISAM-2015)
- International Conference on Solid State Physics in 2015 (CSSP University of the Punjab, Lahore)
- Workshop on “Patent filling & Introduction to Intellectual property System of Pakistan” in 2017, University of the Punjab, Lahore
- International Conference on Solid State Physics in 2017 (CSSP University of the Punjab, Lahore)
- International Symposium on Condense Matter Physics in 2018, The Women University Multan, Pakistan
- Workshop on “Development of Youth” in April, 2018, University of Sargodha, Bhakkar Campus, Bhakar

### **INTERNATIONAL CONFERENCES**

- 2<sup>nd</sup> International conference on Applied Surface Sciences (ICASS’17) Dalian, China

### **CONFERENCE PROCEEDINGS**

- *Synthesis and characterization of rare earth elements substituted X-type hexagonal ferrites*  
**Imran Sadiq**, Mazhar ud Din Rana, Shahzad Naseem  
 Materials Today: Proceedings 2 ( 2015 ) 5462–5467

## ***REFERENCES***

1. Prof. Dr. Shahzad Naseem  
COE in Solid State Physics, Punjab University, Lahore, Pakistan  
Email; director.cssp@pu.edu.pk
2. Prof. Dr. Misbah ul Islam  
Department of Physics, Bahauddin Zakariya University, Multan, Pakistan  
Email; muislampk@yahoo.com
3. Prof. Dr. Mazhar ud Din Rana,  
COE in Solid State Physics, Punjab University, Lahore, Pakistan  
Email; [mazharran@bzu.edu.pk](mailto:mazharran@bzu.edu.pk)