Mukhtiar Hussain

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ABOUT ME

A dedicated, detailed and capable research fellow with graduate-level Materials research. A confident presenter at research seminars and teacher in classrooms, able to explain complex information to audiences of all levels.

WORK EXPERIENCE

University lecturer in Physics

BNB Women university [05/09/2021 – Current]

City: Sukkur

Country: Pakistan

Lecturer of physics

College Education Department Government of Sindh [14/12/2015 – 30/08/2021]

City: Karachi

Country: Pakistan

Teaching Physics
Research Projects

University physics lecturer

IBA Sukkur University [01/11/2011 – 19/12/2015]

City: sukkur

Country: Pakistan

Teach Physics

EDUCATION AND TRAINING

MS Physics

NED University of Engineering and technology [2019]

Address: karachi, 75500 karachi (Pakistan)

Website: https://www.neduet.edu.pk/

BS Physics

Sindh University [2010]

Website: https://usindh.edu.pk/

Instrumental Immersion Program

IBA Sukkur

Address: IBA UNIVERSITY Airport road Sukkur, 65200 Sukkur (Pakistan)

Website: https://www.iba-suk.edu.pk/

Project Base Learning

IBA Sukkur

Address: IBA UNIVERSITY Airport road Sukkur, 65200 Sukkur (Pakistan)

PUBLICATIONS

Synthesis and Characterization of Cr3+ doped BiFe1-xCrxO3 Multiferroic Ceramics

[2023]

ISSN(P): 2707-711X | ISSN(O): 2788-7456 Volume 4, Issue 1, June 2023, pp 31-44

2. Enhancement in electrical properties of BFO with co-doping of La and Ni (Under review)

PROJECTS

Synthesis and General properties of BiFe1-xCrxO3 Ceramics

[31/12/2018 – 23/10/2019]

Aims and Objectives

1.The synthesis of pure BFO and isovalent doping of Cr^{3+}in BFO with various concentrations by conventional solid-state processing technique.

2.Transport of charge carriers

3. Optimization of calcination and sintering temperatures of the compounds

4. Bi volatility in pure BFO and BFOC formulations.

5.Dielectric properties at various frequencies

6.Magnetic Properties

7.Piezoelectricity

Study of Isovalent co-doping in Bi1-xLaxFe1-yNiyO3 Multiferroic Ceramics

[22/10/2019 – 29/12/2019]

Aims and Objectives

1.The synthesis of pure BFO and isovalent doping of Cr^{3+}in BFO with various concentrations by conventional solid-state processing technique.

2. Optimization of calcination and sintering temperatures of the compounds

3. Bi volatility in pure BFO and BFOC formulations.

4.Dielectric properties at various frequencies

5.Magnetic Properties

6.Piezoelectricity

LAB: EXPERIENCE

Material Characterization

- Heat treatment Lab.
- Advanced Characterization Lab.
- Mechanical Testing lab.

CHARACTERIZATION TECHNIQUES

Advanced Lab. work

- X-Ray Diffraction (XRD)
- Scanning electron Microscopy (SEM)
- Fourier-transform infrared spectroscopy (FTIR)

- Vibrating Magnetrometric Microscopy (VSM)
- Theromogravimetric Analysis (TGA)
- Inductance,Capacitance and Resistance (LCR)
- DSC
- TEM

RESEARCH INTEREST

Condensed Matter

- Multiferoic Materials
- Pervoskite Material
- Solar Cell
- Li Batteries
- Materials for Storage devices
- Surface science

REFERENCES

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Materials Engineering Department

NED University of Engnineering and Technology Karachi

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Associate Professor

Insititute of Physics, University of Sindh

Contact# +923003022830

Dr Ram Chand

Associate Professor & Head of Department

Department of Natural Science,

Begum Nusrat Bhutto Women University Sukkur

Contact # +923332513375

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