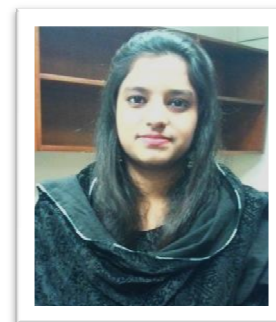


Uzma Hira



Address: House # B-11-325-15A, Street # 1, Zafar Dar Street, Khalid Road, Muslim Gunj, Sheikhpura, Pakistan

Nationality: Pakistan

Age: 22-07-1987

Gender: Female

Marital status: Married

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Objective

To accept a challenging position in an organization and grow on basis of my personal abilities and to serve the community, improve the lives of others and provide them efficient and effective services to the best of my knowledge and become a successful and result oriented person

Education

- *Lahore University of Management Science, Ph.D., Chemistry, 2019, 3.66/4.00*
- *University of Peshawar, M.Phil., Physical Chemistry, 2013, 4.00/4.00 (Distinction)*
- *Allama Iqbal Open University Islamabad, B.Ed., Chemistry/Biology, 2011, 644/900*
- *University of Peshawar, M.Sc., Chemistry, 2010, 886/1200*
- *University of Punjab, B.Sc., Chemistry, Biology, 2007, 549/800*

Achievements

Scholarships & awards

- Fully Funded Ph.D. Scholarship
- Two years merit scholarship for M.Phil. study
- District level scholarships throughout in academics
- 2nd position in 4th spring research poster exhibition competition held at ICS, UOP
- 1st position in M.Phil course work
- 1st position in the SSC exams
- 3rd position in M.Sc exams
- Scottish government Ph.D. research travel grant 2016 for Pakistani females through British Council
- Nomination for Lindau Nobel Laureate meeting 2017 by Higher Education Commission Pakistan (HEC) and Pakistan Institute of engineering and Applied sciences (PIEAS)
- 6 months fellowship awarded by HEC to work in Technical University of Denmark (DTU) in 2017
- 2 months fellowship awarded by European union commission project within 2020 Horizon at Alba Synchrotron Light Source, Spain in 2018

M.Phil. Research Project

- *Synthesis of Uniform Fine Particles of ZrO_2 and Electrodeposition of Cu- ZrO_2 Nanocomposite Coating on Steel Surface*

Ph.D. Research Project

- *Synthesis and Properties of High-Temperature Thermoelectric Perovskite Oxides for Efficient Energy Harvesting*

Publications

1. Hira, U.; Grivel, J. C.; Christensen, D. V.; Pryds, N.; Sher, F., Electrical, magnetic and magnetotransport properties of Na and Mo doped $\text{Ca}_3\text{Co}_4\text{O}_9$ materials *RSC adv.* **2019**, 9, 31274.
2. Hira, U.; Pryds, N.; Falak, S., Thermoelectric properties of dual doped $\text{Bi}_2\text{Sr}_2\text{Co}_2\text{O}_y$ -based ceramics *J. Electron. Mater.* **2019**, 48, 4616-4626.
3. Hira, U.; Falak, S., Structural, Magnetic and High-temperature thermoelectric properties of $\text{La}_{0.4}\text{Bi}_{0.4}\text{Ca}_{0.2}\text{Mn}_{1-x}\text{Co}_x\text{O}_3$ ($0 \leq x \leq 0.3$) Perovskites, *J. Magn. Magn. Mater.* **2018**, 452, 64-72.
4. Hira, U.; Han, L.; Norrman, K.; Cristensen, D. V.; Pryds, N.; Sher, F., High-temperature thermoelectric properties of Na- and W-doped $\text{Ca}_3\text{Co}_4\text{O}_9$ system, *RSC adv.* **2018**, 8, 12211.
5. Akhtar, K.; Hira, U.; Khalid, H.; Zubair, N., Uniform fine particles of ZrO_2 as reinforcement filler in the electrodeposited Cu-ZrO_2 nanocomposite coating on steel substrate, *J. Alloys Compd.* **2019**, 772, 15-24.
6. Khan, A. A.; Hira, U.; Iqbal, Z.; Usman, M.; Falak, S., Structural, magnetic and magnetocaloric properties of $\text{CoFe}_{2-x}\text{Mo}_x\text{O}_4$ ($0.0 \leq x \leq 0.3$) ferrites, *Ceram. Int.* **2017**, 43, 7088-7093.
7. Khan, A. A.; Hira, U.; Falak, S., Large relative cooling power of Bi-doped $\text{La}_{0.8-x}\text{Bi}_x\text{Sr}_{0.08}(\text{Ca}_{0.55}\text{Ba}_{0.45})_{0.12}\text{MnO}_3$ ($x= 0.0, 0.1$ and 0.3) perovskites: Magnetic and magnetocaloric properties, *Ceram. Int.* **2017**, 43, 7351-7357.
8. Akhtar, K.; Haq, U. I.; Hira, U., Synthesis and characterization of uniform zirconia particles by homogeneous precipitation method, *High Temp. Mater. Proc.* **2013**, 32, 391-395.

Conferences/Seminar attended

- Contribution of NCE in Physical Chemistry in National Development (Jan.17,2011)
- National Symposium on Kinetics and Catalysis (27-30 Sep, 2011) organized by National Center of Excellence in Physical Chemistry University of Peshawar
- Oneday Research Poster Symposium in Physical Chemistry (Dec. 23, 2011)
- NAYSScience Forum 2013 held at UOP on 9th April 2013, organized by National Academy of Young Scientists Pakistan in collaboration with Sciencesociety & Pakistan Scientific & Technological Information Centre
- 4th Spring Research Poster Exhibition (April 11, 2013) organized by ICS, UOP
- International Conference on Physical and Environmental Chemistry (ICEPC-2013) held at Hotel Elites Nathia Gali on Sep. 9-11, 2013 organized by NCEPC, UOP
- Oneday Chemistry Conference on Chemical trends 2013 at LUMS Sep. 27-2013
- 3rd Conference on Frontiers of Nanoscience and Nanotechnology Oct. 25-27, 2016
- Ph.D. annual poster symposium, Technical University of Denmark (DTU), Nov. 18, 2017
- 37th annual international conference on thermoelectrics (ICT-2018) and 16th annual European conference on thermoelectrics (ECT-2018), 1st to 5th July, 2018, Caen, France

Work Experience

Assistant Professor of Physical Chemistry at School of Physical Sciences (SPS), University of the Punjab since Sep. 2020

Research and Scientific writing with <https://nowalchemistry.com/>: May 2020-Aug. 2020

Scientific writing with Primary Research group Inc. USA on the project: Energy Storage Technologies: Government Funding, Research, Scholarly & Commercial Developments Dec. 2019-April 2020

Lahore University of Management Science, Pakistan, Lahore, Punjab September 2013 – 2019

Teaching/Research Assistant in the Department of Chemistry and Chemical Engineering

Rawalpindi College of Commerce, Pakistan, Kamra, Punjab September 2010 - December 2010

Lecturer (Chemistry)

Skills

- Instruments Handling -
- Fourier transform infrared spectroscopy (FTIR)
- X-ray diffractometer (XRD)

- Scanning electron microscope (SEM)
- Oven, Thermostat, Metal (Cutting, Cleaning and Polishing) instruments,
- Microhardness tester (Schimadzu, HMV-2)
- Gamry instrument (REF 3000-17134)
- Potentiostat/Galvanostat/ZRA)
- Ball-on-disc tribometer
- Vibrating sample magnetometer (VSM)
- ULVAC-RIKO ZEM3
- NETZSCH LFA-457 laser flash system

References

- Associate Professor Dr. Falak Sher | Head of Physics Department
Lahore University of Management Science
Email: fsher@lums.edu.pk
- Professor Dr. Nini Pryds | Section Head | DTU Energy
Technical University of Denmark (DTU)
Email: nipr@dtu.dk

Languages

- English – Proficient
IELTS: Reading 6.5, Writing 6.5, speaking 6.5, listening, 6.0 Overall Band score: 6.5
- Urdu – Native