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Asma

E- mail: [asma-399043@2freemail.com](mailto:asma-399043@2freemail.com)

WhatsApp Number: +971504753686

**Education**

1. Ph.D: Chemistry - University of Punjab – Pakistan
2. M.Sc: Chemistry- Islamia University Bahawalpur. Pakistan.
3. B.Sc: Chemistry- Biology. University of the Punjab, Lahore. Pakistan.
4. Certificate: Continuing Education- University of Illinois at Chicago. U.S.A
5. Certificate: Participated- University of Illinois at Chicago. U.S.A
6. Certificate: Education Investigator- University of Illinois at Chicago U.S.A

**Professional Experience:**

* **Teaching Experience**

1. **Visiting Scholar :** Taught courses as an Instructor in Chemistry, and delivered Seminar andLectures related to the topics of life science in **University of based company** .Experienced in guiding a team of researchers for determining the Role of Trace Elements in human body. As an initiator and inhibitor agent of cancer. In the Above Project also Taught and Guided Students in Performance of Labs demonstration and assisted them in Lab experimental work.
2. **Head of Chemistry Department:** Worked as a Head of Chemistry Department. Dutiesincluded administrated smooth running of Chemistry department , conducted exams, supervised process of results compilation. Worked as a member of Selection Board in **PAF** **(Pakistan Air Force) College, Chaklala, Rawalpindi.**
3. **Lecturer**: Delivered lecturers, Demonstrated experiments, coordinated parents teachermeetings in **P.A.F. Degree College Chaklala, Rawalpindi.**
4. **Teacher:** Worked as a science teacher in **Army Education Corps High School.**
5. **Teacher:** Worked as a Science teacher in **Cantt Public High School.**

* **Black Board Learning Management System**

1. Expertise in Black Board Learning system while extensively using, demonstrating and teaching CHEMISTRY to the Chinese Students.
2. The above mentioned software, helped students in different functional modules which include viz. Communication and sharing contents, it was also utilized for the functions like: Chatting, Discussion and Mailing. In addition, it assisted scholars in various functions comprising with Calendar, Modules, Assessment, Grade books and Media libraries.
3. Further, necessary guidance was provided to the fellows on the usage of this software

* **Research Experience**

1. Hold more than 20 years of experience in research, scientific papers publication and presentation in conferences. Besides in lab sample collection, chemical analysis, data collection, statistical data analysis, data interpretation, data presentation and in different technical conferences.

1. Have more than 10 publications in reputable peer reviewed scientific journals.
2. Have extensive experience in administrating and managing research teams. Specifically quality control of different cancer diagnostic cold kits, i.e DMSA, ULSANIC, MIBI, PHYTATE, MDP, DTPA etc.
3. Supervised/participated in scientific projects listed below.

**Positions Held/ Research Projects**

1. **Visiting Research Scholar 2000-2008 University of Illinois at Chicago. U.S.A:**

As a Visiting Research Scholar, I designed various research projects for various undergraduate class levels. These projects were designed to study the increasing rate of environmental degradation that has been created by different pollutants and toxicological effects of heavy metals on food chain, respiration rate and enzymatic study of α-Aminolevulinic acid dehydratase:

**Projects**:

A.“ Determination of Protein/ hemocynine ratio in crayfish Blood.

B.“ Toxicological Effects of heavy metal ions on respiration rate of aquatic animals

C.“ Enzymatic study of in earthworm blood.

**2. Senior Scientific Officer: 1996-2000. Institute of Science and Technology. Pakistan.**

* . Responsibilities included, setting up the lab, preparation of diagnostic cold kits and their

quality control by using different analytical techniques such as GLC (Gas-Liquid Chromatography).

* As per project requirements, blood samples were collected from

various hospitals which provided treatment to cancer patients. AAS (Atomic Absorption Spectrometry) was used to analyze the blood samples.

* Research and development was focused to improve the percentage yield of DMSA, ULSANIC, MIBI, PHYTATE, MDP, DTPA, kits and reduce the time of freeze dryer.
* In addition, previous methods for preparing Phytate Kit for liver and spleen imaging

were

significantly improved. Besides, research was also focused to improve the visualization of liver and spleen and minimizing the uptake in lungs and kidneys.

* Efforts were also focused to increase the labeling yield of Tc-99 complex and improve the shelf life of the kit.

**A.“Oncological Investigations of Trace Elements in Blood Samples”:**

* + The objective of this study was to establish the relationship of blood metal concentrations with various typesof cancer.
  + Blood samples of humans with different types of cancers were analyzed for the levels of carcinogens (e.g. chromium) and cancer inhibitor (e.g. selenium). The

aim of this work was to determine the concentrations of chromium and selenium in the blood of patients suffering from breast, blood, lungs and throat cancer and comparing their concentrations to that of the healthy patients in the study.

* The focus of the study was to evaluate whether the concentration of certain trace elements increased as the stages of cancer accelerated.

**B. X- ray Fluorescence Spectrometer** was skillfully used to “Measure the Titanium andMolybdenum in Special Steels and Alloys. This study was focused on use of XRF as a tool to improve the quality of steel.

**C. A review article was written on “Nuclear Power Generation**...A friendly Technology tothe

Environmental Chemistry and tried to establish the fact that available natural energy resources are very limited and we looked for a energy source it should be reliable, cheep and non hazardous to our environment. Presently, nuclear energy is the only source that fulfills our demands and be considerably safe.

**D. Wavelengths Despersive X-ray Fluorescence Spectrometry** was used to Characterizedifferent steel and alloys samples to establish the reliability and accuracy of the method.

1. **Assistant Scientific Officer: 1987-1994. Institute of Science and Technology. Pakistan**

Performed a number of investigative study projects including following:

A. This study was focused to provide evidence that the **X-ray Fluorescence Spectrometry** is equally useful in determination of light elements such as Fluorine in solids to the measurement of 120ug/g.

B. **A research study was designed** to develop a method for the determination of traces of hafnium in zirconium oxide by wavelength dispersive X-ray fluorescence spectrometry. In

this study more than fifty samples were analyzed.

C. **The elemental analysis of special material** by X-ray fluorescence Spectrometry was done in order to set the best combination of various parameters to improve the accuracy and the precision of the concentration of transitional elements.

**Conferences Presentations/ Publications**

1. “Elemental analysis of special material by X-ray fluorescence Spectrometry” published in J. Radio.A. Chem. 133, 259-270.
2. Published J. Radio.ANChem.1990. 142, 505-514.
3. Published J. Radio A.N. Chem.1991. 148, 211-216.
4. Published, COMSTECH Workshop on Recent Advance in Material Science, Islamabad, Dec. 1992. Proceeding 173.
5. Presented at Second National Symposium on “Modern Trend in Contemporary

Chemistry ”, April 1995. Islamabad, Pakistan.

1. N.Power Generation...A friendly Technology to the Environmental Chemistry. Presented at Bara Gali Conference. August 27-30, 1995.

7.“ Improved Method for the Preparation of Phytate Kit for Liver and Spleen Imaging”. Presented at a national conference held by “Pakistan Council of Scientific and Industrial Research” Sep 25-27, 1997. Lahore, Pakistan.

1. Published in J. Radio anal Nuc. Chem. 1998. 232, 195-200,
2. Presented “Environmental Pollution Monitoring Techniques” March 24-26, 1999, Islamabad, Pakistan.

10- Conference presentation in “SETAC/ SRA JOINT MEETING” March 14- 16, 2007, at Argonne National Laboratory, 9700s. Cass Avenue Argonne, IL 60439.

11- Published in International Journal of Scientific & Technology Research, Vol. 2, Issue 10,

2013.