



Miss Aziza Sarwar

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Curriculum Vitae

OBJECTIVE

To excel in the area of Inorganic (Coordination) chemistry in BUITEMS, which provides a competitive environment with challenging goals and adequate opportunities of professional and personal growth.

EXPERIENCE

Oct 2007 - 2009

Worked on adhoc basis in the faculty of Arts and Basic Sciences, Balochistan University of Information Technology Engineering & Management Sciences (BUIITEMS).

2009 - 2015

Lecturer in the faculty of Arts and Basic Sciences, Balochistan University of Information Technology Engineering & Management Sciences (BUIITEMS).

2016-Until now

Assistant Professor in the faculty of Arts and Basic Sciences, Balochistan University of Information Technology Engineering & Management Sciences (BUIITEMS).

EDUCATION

2021

University Malaya, Malaysia. **Doctor of Philosophy (PhD), Inorganic (Coordination) Chemistry.**

2015

University Technology Malaysia. **MS (Equivalent to Mphil) CGPA (4) (Best Postgraduate Student Award (Medal))**

2007

University of Balochistan. **MSc, Science (Inorganic Chemistry) (Distinction, Third Position)**

2005

Govt. Degree Girls College, Quetta. **BSc, Science (Position amongst top ten candidates from Balochistan).**

2002	Islamia Girls College, Quetta. FSc (Pre-medical) Scored A+ in chemistry Subject
2000	Saint Josephs' Convent Girls High School Quetta. GCSE O'Level (Cambridge board).
AWARDS	
2007	Distinction in MSc, University of Balochistan (Third position)
2016	Best Faculty Award (2016 Convocation)
2015	Best Postgraduate Student certificate , University Technology Malaysia
2015	Best Postgraduate Student Award (Medal) , University Technology Malaysia.
	(2023)
Publications	<p>[1] Aziza Sarwar, Hadariah Bahron, Nusrat Nabi, Bushra Naureen, Bibi Sherino, Anila Ali, Yatimah Alias. Solid state dual emissive binuclear Cobalt (II) azomethine complexes: Synthesis, characterization, thermal stabilities and photoluminescence studies. Journal of Molecular Structure.1274, 134537, 2023.</p>
	<p>[2] A Review in Current Trends of Antibacterial Schiff Base Complexes: Lower and Higher Transition Metal Complexes (2023). Malaysian Journal of Microbiology</p>
	<p>[3] Study the thin polymer dispersed liquid crystal (PDLC) film technology for smart electronic devices. Accepted (Moved on to production)</p>
	(2022)
	<p>[1] A.Sarwar, H.Bahron, N.Nabi, M.Ellahi, B.Naureen, H.Panezai, Y.Alias (2022). Recent Trends in Luminescent Zn(II) and Ir(III) Complexes bearing variety of Schiff base ligands. MjChem. 24 (3), 88-112</p>
	<p>[2] Aziza Sarwar, Nusrat Nabi, Bushra Naureen, Bibi Sherino, Mujtabba Ellahi, Hamida Panezai. (2022).Antibacterial Properties of binuclear Zn(II) azomethine complexes derived from</p>

diaminodiphenylsulphide bridged spacer. Scientific inquiry and Review. 6(4). 84-107,2022.

- [3] Anila Ali, Roslinah Mohamad Hussain, Ali Asghar, Aziza Sarwaer, Syed Zameer Ul Hassan, Gohram Khan Malghani (2022). Physiological Impacts of Motorcycling on its Young Riders in relation to their Body Mass Index. Journal of applied and Emerging Sciences.12 (2), (2022).

(2021)

- [1] A. Sarwar, S.M. Saharin, H. Bahron, Y. Alias, Dual emissive dinuclear Iridium(III) azomethine complexes: Synthesis, luminescence, thermal stability and antibacterial studies, J. Lumin. 233 (2021) 117861. <https://doi.org/10.1016/j.jlumin.2020.117861>.
- [2] B. Naureen, G.A. Miana, K. Shahid, M. Asghar, S. Tanveer, A. Sarwar, Iron (III) and zinc (II) monodentate Schiff base metal complexes: Synthesis, characterisation and biological activities, J. Mol. Struct. 1231 (2021) 129946. <https://doi.org/10.1016/j.molstruc.2021.129946>.
- [3] B. Naureen, G.A. Miana, K. Shahid, M. Asghar, S. Tanveer, M. Faheem, A. Sarwar, A.D. Azzahari, Iron (III) and Zinc (II) Metal Alkaloid Complexes : Synthesis , Characterization and Biological Activities, MjChem. 23 (2021) 55–73.

(2020)

- [1] A. Sarwar, S.M. Saharin, H. Bahron, Y. Alias, Synthesis, structures, luminescence and thermal stability of Visible/NIR emitting binuclear azomethine-Zn(II) complexes, J. Lumin. 223 (2020) 117227. <https://doi.org/10.1016/j.jlumin.2020.117227>.

(2018)

- [1] A. Sarwar, M. Bin Shamsuddin, H. Lingtang, Synthesis, Characterization and Luminescence Studies of Metal-Diimine Complexes, Mod.

CONFERENCE, PRESENTATION AND SEMINARS

[1] Presentation in **Regional Annual Fundamental Science Symposium** in Collaboration with **Osaka University (2014)**.

[2] Candidature Defense Seminar and Presentation (PhD)(2020).

[3] Thesis Seminar and Presentation (PhD) (2020).

[4] Seminar, Chemistry Department **BUIITEMS (Imines and Metals, A match made in Heavens)** in collaboration of Prof. Dr. Hadariah Bahron UiTM (2022).

AREAS OF INTEREST

[1] Synthesis and Characterization of Azomethine Schiff bases.

[2] Synthesis and Characterization of Transition Metals-Azomethine complexes.

[3] Synthesis and Characterization of Lanthanide Metals-Azomethine complexes.

[4] Solid and liquid state luminescence studies.

[5] Quantum yield determination.

[6] Synthesis and Applications of nanomaterials.

[7] Antioxidant activities, Antibacterial studies and Degradation studies.

SKILLS

[1] Chem Draw

[2] Origin

[3] PXrd software

[4] NMR software

[5] FTIR software (KBr palette and ATR)

[6] Mendeleev, Endnote

[7] Interpretation of **PXRD, ¹H NMR, ¹³C NMR, FTIR, Uv-Vis, EDAX spectra**, as well as **elemental analysis and magnetic susceptibility of coordination compounds**.

ACTIVITIES

[1] Member of course allocation committee, BUIITEMS (from 2021).

[2] Member of Girls hostel committee, BUIITEMS.

[3] Member of Graduate research committee, Chemistry Department.

[4] Member of Board of studies 2015

[5] Member of Board of studies 2021

Experience in working with instruments and Compounds characterization

Name of Instruments

[1] Ultraviolet Visible spectrophotometer (Uv-Vis)

[2] Nuclear Magnetic Resonance (^1H -NMR and ^{13}C -NMR)

[3] Fourier Transform Infrared Analysis (FTIR)

[4] Thermogravimetry Analysis (TGA)

[5] Scanning Electron microscopy (SEM)

[6] Elemental analysis (CHNS analysis)

[7] Fluorescence spectrophotometer

Teaching Experience in different departments of BUIITEMS

Name of Departments

[1] Chemistry, Physics, Biotechnology, Geological engineering, Mining Engineering, Petroleum and Gas Engineering, Chemical Engineering, Textile Engineering. (Taught Chemistry as minor Subjects in all other Departments other than Chemistry)

[2] Teaching experience, advanced Inorganic courses i.e. **Symmetry and Magneto chemistry, Inorganic Spectroscopy, Advanced inorganic chemistry (MS).**

MS and BS Students, supervision

Supervisor of MS Students

[1] Determination of Harmful Heavy Metals in Grapes of Zhob District.

[2] Biosynthesized Lanthanum Oxide Nanomaterials: Synthesis, Characterization and Potency towards Biological Applications.

Co-Supervisor of MS students

[1] Synthesis, Characterization and evaluation of Biological Potential of Strontium Nano Particles from Plant Extract.

Supervisor of BS students

[1] Comparative Analysis of Reaction Time and

Percentage Yield of Ni(II), Co(II) and Sr(II) Dimethylglyoxime Complexes: Hydrothermal and Conventional Method of Synthesis.

[2] Comparative Assessment of Harmful Heavy Metals in Vegetables (Spinach, Coriander and Mint) of Polluted and Non-Polluted Areas.

[3] Hydrothermal Synthesis and Characterization Of Novel Azomethine Zn(II) Complex.

[4] Hydrothermal Synthesis and Characterization of Novel Azomethine Lanthanum (III) complexes

BS STUDENTS (Co-Supervisor)

[1] Physico-Chemical Analysis of water from Kanak District Mastung.

REFERENCES

Prof. Dr. Ehsanullah Kakar
Professor
Vice chancellor, University of Loralai
Phone: 0344444782
E-mail: vc@uoli.edu.pk drehsan.buitems@gmail.com

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