Dr. Shazalia Mahmoud Ali Ahmed

Assistant Professor
Chemistry Department:
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Research Interests:
Optimization and validation of separation procedures for complex mixtures (quality control of dosage forms) of closely related compounds (purity testing of active ingredients) by UV- visible spectroscopy and spectrofluorimetric techniques
Analysis of trace elements in food and environment using atomic absorption and X- ray fluorescence techniques
Determination of pesticides residues in food, and environmental sample using GC and HPLC
Language Skills
Arabic, English

Qualification (Career and University Education)

1994	B. Sc. Degree (Chemistry-Zoology)	University of Khartoum
1998	M.Sc. Degree(Analytical Chemistry)	University of Khartoum
2012	PhD Degree (Analytical Chemistry)	University of Khartoum

Career

2001- 2013	Lecturer Khartoum college of medical and health sciences
2008-2013	Head chemistry department Khartoum college of medical and health sciences
2016-2018	Assistant professor faculty of science and Humanities Hawtat sudair (coordinator)
2018-Now	Assistant Professor Chemistry Department: College of Science, Zulfi

Conferences

Annual Conference for Postgraduate Studies and Scientific Research (Basic and Engineering Sciences) Friendship Hall 17-20 February 2012

Publications

1. New spectrophotometric method for determination of cephalosporins in pharmaceutical formulations Arabian Journal of Chemistry (2011)
2. New Spectrofluorimetric Method for Determination of Cephalosporins in Pharmaceutical Formulations J Fluoresce 2011
3. **1,2-Naphthoquinone-4-Sulphonic Acid Sodium Salt (NQS) as an Analytical Reagent for the Determination of Pharmaceutical Amine by Spectrophotometry Applied Spectroscopy Reviews 2012**

4. **A novel spectrophotometric for the determination of cephalosporins using 8-hydroxy-1, 3, 6-pyrenetrisulfonic acid trisodium salt (HPTS) as a chromogenic reagent American Academic & Scholarly Research Journal 2012**
5. New spectrofluorimetric method for determination of cephalosporins in pharmaceutical formulations Luminescence 2012
6. Development and Validation of Spectrophotometric Method For The Determination of Cefadroxile And Cefuroxime Sodium In Pharmaceutical Formulations Via Derivitization With 8-Hydroxy-1,3,6-Pyrenesulfonic Acid Trisodium, Asian journal of pharmaceutical technology & innovations 2013
7. **Application of NQS in pharmaceutical analysis, Analysis of pharmaceuticals amine using NQS cephalosporins, fluoroquinones, cardiovascular & antimalarial drugs 2012**
8. **Optimization and validation of spectrofluorimetric method for determination of cefadroxile and cefuroxime sodium in pharmaceutical formulations, luminescence 2013**
9. **Spectroscopic methods for analysis of cephalosporins in pharmaceutical formulations, world journal of analytical chemistry 2015**

Teaching Experience

Course name	Course code		
General chemistry1	CHM101	Zulfi College of Science	Majmaah University
Quantum chemistry 1	CHEM222	Zulfi College of Education	Majmaah University
Qualitative analytical chemistry	CHEM224	Zulfi College of Education	Majmaah University
Quantitative analytical chemistry	CHEM315	faculty of science and Humanities Hawtat sudair	Majmaah University
Transition metals	CHEM322	faculty of science and Humanities Hawtat sudair	Majmaah University
Coordination chemistry	CHEM324	faculty of science and Humanities Hawtat sudair	Majmaah University
Instrumental Analytical chemistry	CHEM411	faculty of science and Humanities Hawtat sudair	Majmaah University
Introduction to chemistry	PCHM124	**Preparatory Year**	Majmaah University
Chemistry of main elements	CHEM122	faculty of science and Humanities Hawtat sudair	Majmaah University
Introduction Analytical Chemistry		Faculty of pharmacy	Elrazi university

Training Experience

Teaching methodology, Education Development Centre, faculty of medicine, University of Khartoum

Scientific article writing .

MCQs construction

The principles and applications of (flame and furnace atomic absorption spectrophotometry, high performance liquid chromatography (HPLC), gas chromatography, thin layer chromatography, UV/VIS – Absorptiometry, Fluorescence, Infra Red Spectrophotometry. In laboratories technical administration, University of Khartoum

Practical Skills

Good knowledge of spectrophotometry for drugs analysis

Good knowledge of spectrofluorimetric technics for drugs analysis

Knowledge of different chromatograhic techniques e.g TLC, GC and HPLC

Good knowledge of classical analytical techniques as gravimetric analysis and volumetric analysis

Good knowledge of different analytical techniques as atomic absorption spectroscopy , X ray fluorescence and Infra Red Spectrophotometry

Good computers skills
Good teaching and presentation skills