

Dr. Mai Makki Mahmoud Mashi



Assistant Professor
Chemistry Department:
College of Science, Zulfi
Majmaah University

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Research Interests:

Gum Arabic and its application in medical and pharmaceutical field, uses of gum Arabic as food supplement photo stability of complexes and its uses on quality control field

Nano technology and its application on chemistry
separation of complex mixtures using visible spectroscopy and spectrofluorimetric techniques

Environmental chemistry and its application on Analysis of trace elements in food and environment using different instrumental analysis

Water analysis, anti oxidants and how we can use it in our daily life
Overcoming the Radiation Pollution of Some Electronic Devices

Language Skills

Arabic, English

Qualification (Career and University Education)

1996	B. Sc. Degree (Chemistry)	Sudan University of Science and Technology
1997	Post graduate diploma (Chemistry)	Sudan University of Science and Technology
2004	M.Sc. Degree(Chemistry)	Sudan University of Science and Technology
2011	PhD Degree (Chemistry)	Sudan University of Science and Technology

Career

1996- 2003	<ul style="list-style-type: none">Teaching Assistant- Chemistry Department- College of Science, Sudan University of Science and Technology.
2004-2010	Lecturer- Chemistry Department- College of Science, Sudan University of Science and Technology
2003-2004	Head of chemistry department(By analogy) College of Science, Sudan University of Science and Technology.
2011- aug2015	Assistant Professor- Chemistry Department- College of Science, Sudan University of Science and Technology)
2015-Now	Assistant Professor Chemistry Department: College of Science, Zulfi
2011-2013	Coordinator of postgraduate diploma - Chemistry Department- College of Science, Sudan University of Science and Technology

Conferences

The First International Conference in Laser Science and Engineering and its Applications. 22nd -26th January 2007. Laser Institute. Sudan University of Science and Technology. Khartoum- Sudan.

The First Conference on Arab Women in Science and Technology "Empowerment for the Development of the Arab World" organized by Arab Science and Technology Foundation. 28th -30th September 2009. Dubai – UAE.

New Developments in Acacia gum research and Products. 20th -22nd September 2010. Glyndwr University-North East Wales, Wrexham, U K.

International Gum Arabic Forum "Gum Arabic: Third Millennium Star for Food, Health and Beauty". 18th -20th September 2011. Khartoum- Sudan.

Conferences of celebrate the International Year of Chemistry, organized by College of Science- Sudan University of Science and Technology and National Commission for UNESCO, October2011

6th Conference of Chemistry King Saud University And sponsored by the Chemical Society Saudi Arabia.2016

Publications

1-Photo stability of anthraquinone basic dyes complex with transition metal ion a Journal of Science and technology (SuSt) 2005

2-Participation in a scientific paper and Poster sixth conference of chemistry King Saud University And sponsored by the Chemical Society Saudi Arabia.2016.

3-Using of Gum Arabic to Improve Renialfailear Patent Life Conferences of celebrate the International Year of Chemistry, organized by College of Science- Sudan University of Science and Technology and National Commission for UNESCO, October2011

4-Physiochemical analysis of acacia Senegal Arabic gum collected from different parts of Sudan .American journal of research .USA<http://www.usa-journals.com/archives/volume-610/>

Teaching Experience

Course name	Course code		
Quantum chemistry 2	CHEM311	Zulfi College of Education	Majmaah University
Qualitative analytical chemistry theory and Practical	CHEM315	Zulfi College of Education	Majmaah University
Coordination chemistry theory and Practical	CHEM324	Zulfi College of Education	Majmaah University
Instrumental Analytical chemistry theory and Practical	CHEM411	Zulfi College of Education	Majmaah University
Chemistry of main elements	CHEM122	Zulfi College of Education	Majmaah University
General chemistry		Faculty of science	Sudan University of Science and Technology

Organic chemistry theory and Practical	Faculty of science	Sudan University of Science and Technology
Analytical chemistry theory and Practical	Faculty of science	Sudan University of Science and Technology
qualitative and quantitative analysis theory and Practical	Faculty of science	Sudan University of Science and Technology
Inorganic chemistry	Faculty of science	Sudan University of Science and Technology
Phesical chemistry	Faculty of science	Sudan University of Science and Technology
Coordination chemistry	Faculty of science	Sudan University of Science and Technology

Training Experience

- 1-First Academic Laser Season Workshop, Laser institute, Sudan University of Science and Technology. 2004. Khartoum- Sudan.
- 2-A workshop on Accreditation and Assessment, 2004. Assessment and Quality Assurance Administration, Sudan University of Science and Technology. Khartoum- Sudan.
- 3-Sudan University of Science and Technology. Khartoum- Sudan.
- 4-A workshop on "Setting Good Exams", 12 July 2008. College of Medical Laboratory Science, Sudan University of Science and Technology. Khartoum- Sudan.
- 5-A workshop on "Laboratory Work Promotion", August, 2008. Sudan University of Science and Technology. Khartoum- Sudan.
- 6-A workshop in Academic Performance Development, Sudan University of Science and Technology, Faculty of Education, 2009.
- 7-A workshop on "Microscience Experiments", 5th -7th July 2010, organized by UNESCO, National Commission for UNESCO and Sudan University of Science and Technology. Khartoum- Sudan.
- 8-A workshop on "Preparation of Syllabus items", 10 March 2011. Assessment and Quality Assurance Administration, Sudan University of Science and Technology. Khartoum- Sudan
- 9- training program in nano chemistry(**theory and Practical**) may 2011 Sudan University of Science and Technology. Khartoum- Sudan
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Post graduate

- Practical analytical chemistry, Higher Diploma in Chemistry students. - Chemistry Department- College of Science, Sudan University of Science and Technology)
- Practical analytical chemistry, master's in chemistry students- Chemistry Department- College of Science, Sudan University of Science and Technology)
- Practical in inorganic chemistry, Higher Diploma in Chemistry students. - Chemistry Department- College of Science, Sudan University of Science and Technology)
- Practical in inorganic chemistry, Master in Chemistry students - Chemistry Department- College of Science, Sudan University of Science and Technology)

Supervision of Research Projects:

1. Supervising many Master, Higher Diploma and final years B.Sc. Students, Chemistry and Scientific laboratories Departments. - Chemistry Department- College of Science, Sudan University of Science and Technology)
2. Co supervisor in two PhD researches of chemistry at - Chemistry Department- College of Science, Sudan University of Science and Technology)
3. Involved in research activities in Chemistry at College of Science- Chemistry Department- College of Science, Sudan University of Science and Technology)

Practical Skills

Good knowledge Computer chemical drawing and designing programs (ChemWin and ChemDraw).

Good skilled in using PowerPoint for preparation of lectures and presentations.

Good knowledge of spectrofluorimetric technics for different chemical compound analysis

Knowledge of different chromatographic 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

Excellent time management skill with effective and efficient output

good skilled in the registration process, Accreditation, Assessment and Academic Advising for students

Good computers skills

Good teaching and presentation skills

Workshops:

1-First Academic Laser Season Workshop, Laser institute, Sudan University of Science and Technology. 2004. Khartoum- Sudan.

2- A workshop on Accreditation and Assessment, 2004. Assessment and Quality Assurance Administration,

3-Sudan University of Science and Technology. Khartoum- Sudan.

4-A workshop on "Setting Good Exams", 12 July 2008. College of Medical Laboratory Science, Sudan University of Science and Technology. Khartoum- Sudan.

5-A workshop on "Laboratory Work Promotion", August, 2008. Sudan University of Science and Technology. Khartoum- Sudan.

6-A workshop in Academic Performance Development, Sudan University of Science and Technology, Faculty of Education, 2009.

7-A workshop on "Microscience Experiments", 5th -7th July 2010, organized by UNESCO, National Commission for UNESCO and Sudan University of Science and Technology. Khartoum- Sudan.

8-A workshop on "Preparation of Syllabus items", 10 March 2011. Assessment and Quality Assurance Administration, Sudan University of Science and Technology. Khartoum- Sudan

Memberships

- Member of Sudanese Chemical Society.
- Member of the executive committee, Sudanese Chemical Society, 2011 till now

Participation in Scientific Conferences and Seminars

Participated in a lecture on scientific applications of Nanotechnology in medicine held on 1437/7 / 28H in the framework of the celebration at Zulfi College of Education Scientific research week.

• Participation in a scientific lecture entitled Improvement of the level of Graduate Programs held on 1437/8 / 8H in the framework of the events of the Faculty of Education in Zulfi University of the collective week - Graduate Studies.

• Participated in a scientific lecture entitled "Magnetic Resonance" held in the framework of events Celebration of Chemistry and Physics Department, Scientific Research Week 1437-1438 AH Zulfi College of Education.

- Participated in a scientific lecture entitled "Drug and Alcohol Dangers And Smoking held annually the academic year 1437-1438 AH in the framework of the activities at Zulfi college of Education - University of Majmaah - Scientific Research Week.
- Participation in scientific competitions entitled the best corner awareness held 1437 / - 1438 AH in the framework of Events of the celebration of the unit of supervision and guidance of students at Zulfi College of Education University - Week of Unity.
- Participated in a workshop by a scientific paper about the Role of Chemistry In Our Lives .
The Sudanese National Commission for Education, Culture and Science UNESCO UNESCO ISESCO Baz in the year - - -
International Chemistry.
- Attended a conference on Gum Arabic Third Millennium Star in Khartoum 2011 Friendship Hall Sudan.
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- Attended a training program entitled Natural Cortisone Alternatives held on 1437/7/28 AH
The activities of the celebration of Zulfi College of Education in scientific research week.
- Attended a training program titled Recycling of Textile and Clothing Remnants held on 1437/7 / 28H in the framework of the activities of the Scientific research, Zulfi College of Education .
- Attended a training program entitled "Overcoming the Radiation Pollution of Some Electronic Devices" Held in 1437/7 / 28H in the framework of the celebration at Zulfi College of Education, Assembly of Scientific Research Week.
- Attended a training program entitled Antioxidants in our Daily Life 1437/7 / 28H in the framework of the Scientific research activities at Zulfi College of Education.
- Attended a training program entitled Nutrition and Immunology held on 1437/7/27 in the framework of Events of the celebration at Zulfi College of Education Majmaah University at the scientific research week.
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- Attended a training program entitled "Spectroscopic Determination of Some Trace Elements as Pollutants in Fruits Dates Palm And Agricultural Soils at Zulfi province 1437/7/25 in the framework of the celebration at Zulfi College of Education, Scientific Research Week.
- Attended a training program entitled "Assessment of Environmental Impact Of Heavy Metals In Ground Water In Zulfi Province" Held on 1437/7/25 under the Events of the celebration at Zulfi College of Education, scientific research week.
- Attended a training program entitled "Clothing Environment Friend held on 1437/7/28 under the Events of the celebration of the scientific research week. Zulfi College of Education.
- Attended a training program entitled " Active Training Program proposed using the Web 2 educational tools for professional development of mathematics teachers in view of their teaching needs to teach developed curriculum In Saudi Arabia held in 1437/7/25 in the framework of the celebration of Scientific Research Week, Zulfi College of Education, Majmaah University.
- Attended a training program entitled "Active Life Skills Program Using Multimedia In The Development Of The Social Interaction Of The Autistic Students In The Zulfi Governorate held on 1437/7/25 in the framework of the celebration of the Scientific Research Week, Zulfi College of Education in.
- Attended a training program entitled A Microscopic Study of Solid Helium Using the Static Fluctuation Approximation" held on 1437/7/25 e within the framework of events
The celebration of the College of Education in Zulfi at the collective scientific research week.
- Attended a scientific lecture entitled Cadmium-ginger two way-antagonistic relationship held in 1437/7/25 in the framework of the celebration of Scientific Research Week, Zulfi College of Education. Majmaah University.
- Attended a scientific lecture titled "Unification of the Einstein Field and Yang Mills Field" 1437/7 / 25H in the framework of the celebration of the Scientific Research Week Zulfi College of Education .
- Attended a scientific lecture entitled Tetrahydro Carbazole Derivatives for Zinc In HCl Solution as Corrosion Inhibitors held on 1437/7/25 e in the framework of events
of the scientific research week, Zulfi College of Education.
- Attending a scientific lecture entitled Blind Windows As A Source For Inspired Decorative Designs For Decoration of the Outer Clothes Relationship held on 1437/7/25 within the framework of scientific research week Zulfi College of Education.
- Attending a scientific lecture entitled "Future looking skills and their relation to the future perspective" for the teachers held on 1437/7/25 in the framework scientific research week, Zulfi College of Education.

- Attended a lecture entitled "Application Of Geotextiles In Airport Paving" held in 1437/7 / 25H in the framework scientific research week, Zulfi College of Education
- Attend a scientific lecture entitled Cloud Computing Applications in the Development Of Design And Production Skills E - Books And Motivation For Achievement of Students Of The Faculty Of Education Majmaah held on 1437/7/25 in the framework scientific research week, Zulfi College of Education
- Attend a lecture entitled Using Wikis Developing Writing Performance And Motivation held on 1437/7/25 in the framework scientific research week Zulfi College of Education.
- Attendance of the training program entitled Health Clothes held on 1437/7/25 in the framework scientific research week, Zulfi College of Education.
- Attended the training program entitled Medical Fabrics held on 1437/7 / 25H in the framework of the scientific research week, Zulfi College of Education.
- Attended of the training program entitled the Dangers Facing the Arabic Language In The Modern Era Held 1437/7 / 25H in the framework of the scientific research week, Zulfi College of Education.
- Attended the training program entitled Use of Google Documents held on 1439/2/17 Quality Assurance and Skills Development Framework at Zulfi College of Education.
- Attend the training program on Building and Measuring Learning Outcomes held on 1439/3/3 Quality Assurance and Skills Development Framework at Zulfi College of Education.
- Attendance of the training program entitled Description of The Course held on 1439/3/1 H in the framework of Quality and Skills Development Activities at Zulfi College of Education .
- Attendance of the training program on The Strategies of Teaching held in 1439/3/18 e Quality Assurance and Skills Development in the framework of Quality and Skills Development Activities at Zulfi College of Education .
- Participated in a Conference of the General Forestry Commission, Khartoum, Sudan, on The Role of Forests In Protecting The Environment. A scientific paper on the role of gum Arabic as a dietary supplement to improve the general condition of some patients and presenting its chemical components with a complete analysis of the results statistically.
- Workshop on the Development Of The Performance Of The University Professor.
- Training role in quality and its impact on the performance of university professor Khartoum University of Sudan 2009
- Workshop and training course in e-learning using the model program. Khartoum 2012
- A training course on the development of methods of writing research, university Sudan University of Science and Technology Khartoum.
- Participated in the final symposium of the International Year of Chemistry under the theme of Chemistry Our Future and our Lives. Ministry of Oil Khartoum.
- Presented a training course titled 6 Sigma and its Applications in Higher Education University of Massed Faculty of Science , 1438/6/22 for the academic year 1437-1438
- Attend a training course entitled Preparing The Vocabulary Of The Course Management Self-Assessment And Quality Assurance - University of Sudan for Science and Technology Khartoum Sudan - 2011 / 3/10
- Attend a training course entitled Use Of Safety Means And Fire Extinguishing And Evacuation Plans in Disaster Case