

Fatema Attia Musfer Al-Zahrany

POSITION

Personal Data

Nationality |Saudi

Department |Chemistry

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Language Proficiency

Language	Read	Write	Speak
Arabic	✓	✓	✓
English	✓	✓	✓
Others			

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
9/2/1419H	Bachelor	College of science	Dammam
18/8/1425H	Master	College of science	Dammam
2/7/2011	Doctorate	College of science	Dammam

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	Differential electrolytic Potentiometric Method as a Detector for Advanced Analytical Techniques : Evaluation and Analytical Applications
Master	Determination of Metals in Some Saudi Arabian Dates

Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work	Date
Assistant professor	College of science- Dammam - building No 1 office No GF6	10/8/2011
Lecturer	College of science- Dammam - building No 1 office No GF6	22/4/1424H
Teaching Assistant	College of science- Dammam - building No 1 office No GF6	24/1/1999

Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
Head of Quality committee Development & Accreditation of the Department of Chemistry	GF02	2016-2024
Member of the external advisory committee	GF02	2017-2024
Director of quality control and development	GF02	22/10/2017- 2/ 9/2018
The committee schedules a member of the Department of Chemistry	GF6	2011- 2016
Academic Advising Committee	GF6	2011-2024

Scientific Achievements

Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	Ahmed Al Mustafa1* , Mohammad Al Tawarah1 , Mohammed Sharif Al Sheraideh2 and Fatema Attia Al Zahrany2	Phytochemical analysis, antioxidant and in vitro β galactosidase inhibition activities of <i>Juniperus phoenicea</i> and <i>Calicotome villosa</i> methanolic extracts	BMC Chemistry volume 15 4/10/2021
2	Mohammed Sharif Al-Sheraideh, Fatema Attia Al-Zahrany	Phytochemical Constituents of Natural Extract of Prickly Pads (<i>Opuntia Ficus-Indica</i>) from Northern and Middle Provinces of the Midle East Area using (ICP-EAS)/(GC-MS) techniques	Der Pharmacia Lettre, 2018, 10 [11]: 37-49
3	Insaf Abdi, Fatmah Alzahrany, Jérôme Lhoste, Jean-Marc Greneche, Amor Ben Ali	Synthesis, crystal structure and Mössbauer study of new iron fluoride $[C_2N_5H_6]_2 \cdot (FeF_5(H_2O)) \cdot 2H_2O$	Journal of Advances in Chemistry(2014): vol 10, No4.2617-2624
4	Abulkibash, Abdalla M.; Al-Zahrany, Fatema A.; El Ali, Bassam M.	A Batch-Wise Flow Analyzer for the Determination of Chloride in Potable Waters Using Differential Electrolytic Potentiometry	Arabian Journal for Science and Engineering (2013): 1-7 , February 06, 2013
5	Al-Zahrani, Fatima Attia Khattab , F	determination of minerals in some dates, Saudi Arabia by atomic absorption and atomic emission flame	Journal of Saudi Chemical Society, Volume 10, Issue 3, pages 585-596 (2006)

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1	The Green Sustainable Future in the Kingdom of Saudi Arabia	30-31/1/2024 At King Fahd University of Petroleum and Minerals (KFUPM) , Dhran – Kingdom of Saudi Arabia	Contribution
2	King Abdulaziz City for Science and Technology (KACST) and King Fahd University of Petroleum & Minerals (KFUPM)	25-27 October, 2016 At King Fahd University of Petroleum and Minerals (KFUPM) , Dhran – Kingdom of Saudi Arabia	Present
3	KFUPM Research Forum 2024 New Research Identity for a Better KSA and World	1-3 October, 2024 At King Fahd University of Petroleum and Minerals (KFUPM) , Dhran – Kingdom of Saudi Arabia	Present

Membership of Scientific and Professional Societies and Organizations

- E-Learning courses
- Boards' Meetings (NCAAA)

Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	General Chemistry I	CHEM 203	lectures
2	General Chemistry I	CHEM 201N	lectures
3	Analytical Chemistry	CHEM 241N	lectures
4	Instrumental Chemical Analysis(1)	CHEM 342N	lectures
5	Introductory to Analytical Chemistry	CHEM 301	lectures
6	Research Project	CHEM 508	lectures
7	Analytical chemistry	CHEM241N	Labs
8	Organic Chemistry 1	CHEM162M	Labs
9	General Chemistry (1)	CHEM101N	Labs
10	Instrumental Chemical Analysis(2)	CHEM443N	Labs
11	Biochemistry 2	BIOCH 407	Labs
12	Introductory to Analytical Chemistry	CHEM 301	Labs
13	Advanced Laboratory	CHEM 505	Labs
14	Instrumental Chemical Analysis	CHEM 208	lectures
15	Instrumental Chemical Analysis II	CHEM 411	lectures
16	Chromatographic Separations	CHEM 304	lectures

Brief Description of Undergraduate Courses Taught: (Course Title – Code: Description)



1	General chemistry203 course covers these fundamental subjects: Chemical foundations, atoms, molecules, and ions, stoichiometry, types of chemical reactions and solution stoichiometry, atomic structure and periodicity and bonding: general concepts.
2	General chemistry201 course covers these fundamental subjects: Chemical foundations, atoms, Molecules, and Ions, stoichiometry, types of chemical reactions and solution stoichiometry, atomic structure and periodicity, bonding: general concepts and covalent bonding: orbitals.
3	Analytical chemistry241 is a title course intended for undergraduate chemistry major's. Chapter's contents should have focused on the theoretical parts which related to practical application used in chemical and different environmental disciplines. The course description will cover review of fundamental concepts, principles of volumetric titrations, gravimetric analysis, analytical process, concentration of solutions, in addition to the practical examples concerning acid-base, precipitation, back titration, indicators and redox titrations.
4	Instrumental Chemical Analysis(1) 342 This course covers about a half a semester of instrumental analysis which is a standard part of the undergraduate chemistry curriculum Most often chemists do this using instruments of some sort. Machines like mass spectrometers or gas chromatographs can indicate both what's in a sample (qualitative) as well as how much of something there is (quantitative). Students who complete this class will understand that analytical instruments are not black boxes, but rather complex tools whose utility depends in detail on how analysts both configure and apply them. students will learn facts about major classes of instruments commonly used in chemical analysis
5	Chromatographic Separations CHEM 304 : This course consists of introduction to fundamentals of extraction and separation methods. Definition, theory and applications. It will cover an overview of principles for extraction and chromatophilic methods like identification and separation. Finally, the course will discuss the types of chromatophilic techniques used in separation and their instrumentation could be used for specific chemical analysis

Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Advanced Analytical Chemistry	CHEM 585	Lecture

Brief Description of Postgraduate Courses Taught: (Course Title – Code: Description)

1	Advanced Analytical Chemistry CHEM 585; Introduce basic innovative tools of analytical chemistry such as determination, techniques, methods, procedures and protocols, analysis, standardization, calibration, single-point versus multiple-point standardizations, blank corrections, spectroscopic methods, spectroscopy based on absorption, ultraviolet-visible and infrared spectrophotometry, atomic absorption spectroscopy, spectroscopy based on emission, Photoluminescence spectroscopy, atomic emission spectroscopy, spectroscopy based on scattering, turbidimetry and nephelometry.
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Course Coordination

#	Course Title and Code	Coordination	Co-coordination	Undergrad	Postgrad.	From	to
1	General Chemistry 1	√		√			
2	General Chemistry I 201N	√		√			
3	Analytical Chemistry 214N	√		√			
4	Instrumental Chemical Analysis(1) 342	√		√			
5	Instrumental Chemical Analysis I CHEM304	√		√			
6	Advanced Laboratory CHEM 505	√		√			
7	Introductory to Analytical Chemistry CHEM 301	√		√			
	Advanced Analytical Chemistry CHEM 585	√			√		

Student Academic Supervision and Mentoring

#	Level	Number of Students	From	to
	6	10		

Administrative Responsibilities, Committee and Community Service (Administrative Responsibilities)

#	From	To	Position	Organization
	8/5/2016	2024	Head of Quality, Development &Accreditation	college of science
	22/10/2017	2/9/2018	Dierctor of quality control and development	college of science

Committee Membership

#	From	To	Position	Organization
	11/3/2017	11/11/2018	<ul style="list-style-type: none"> E-Learning courses 	college of science
	2017	2024	<ul style="list-style-type: none"> external advisory committee 	Chemistry department

Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	Use PowerPoint presentations .
2	Skill in excel
3	Skill in all computer program



4 Good communication and interpersonal skills

Last Update

16/ 1/ 2025