



FACULTY FULL NAME: Aeshah Hassan Saeed Al-Amri

Assistant Professor

Personal Data

Nationality | Saudi

Department | Chemistry

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Language Proficiency

Language	Read	Write	Speak
Arabic	Very good	Very good	Very good
English	Very good	Very good	Very good

Academic Qualifications (Beginning with the most recent)

Academic Degree	Place of Issue	Address
PhD	King Abdul-Aziz University	Jeddah
Master		Jeddah
Bachelor		Jeddah

Ph.D., Master or Fellowship Research Title: (Academic Honors or Distinctions)

Ph.D.	Investigation of the Electronic Structure of a Molecular Switch Based on Naphthalene 1-al-4-ol-8-piperidine. Molecular Dynamics of the Excited State.
Master	Electronic Structure and Spectra of some Triazolo pyrimidine derivatives

Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work	Date
Associate Professor	Chemistry Department- Science College	Present
Assistant Professor	Chemistry Department- Science College	2015 to 2021
Lecture	Chemistry Department- Science College	2009



Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
I served as the head of female students in the Academic Enrichment Mawhiba program	Presented by the King Abdulaziz and His Companions Foundation for Giftedness and Creativity at Imam Abdul Rahman bin Faisal University in Dammam	June – July 2021
Vice Dean.	Vice Deanship of E-learning and Distance Learning, Imam Abdulrahman bin Faisal University (IAU), Dammam, Saudi Arabia.	2019-2020
Head of the Science Club at IAU	Imam Abdulrahman bin Faisal University (IAU), Dammam, Saudi Arabia.	2016-2017

Scientific Achievements

Published Refereed Scientific Research

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher	Date of Publication
1	N. Phadke Swathi, Seranthimata Samshuddin, Talal A. Aljohani, Kedila Rasheeda, Vijaya D. P. Alva, Irshad Baig, Nujud Maslamani and Aeshah Hassan Alamri	Investigation of some new triazole derivatives for inhibiting the acid corrosion of C1018 carbon steel: Correlation of electrochemical studies with quantum chemical calculations.	South African Journal of Chemical Engineering	2023/02/03
2	Aeshah Hassan Alamri	Application of machine learning to stress corrosion cracking risk assessment	Egyptian Journal of Petroleum	2022/12/1
3	Kedila Rasheeda, N Phadke Swathi, Vijaya DP Alva, Talal A Aljohani, Fatimah Y Alomari, Aeshah Hassan Alamri	Anticorrosive Behavior of New Pyrimidine Derivatives on Carbon Steel in Acidic Medium: Experimental, Theoretical, and Surface Studies	Journal of Bio- and Tribo-Corrosion	2022/12
4	N Phadke Swathi, Seranthimata Samshuddin, Talal A Aljohani, Kedila Rasheeda, Vijaya DP Alva,	A new 1, 2, 4-triazole derivative as an excellent corrosion inhibitor: Electrochemical experiments with theoretical validation	Materials Chemistry and Physics	2022/11/15



	Fatimah Y Alomari, Aeshah Hassan Alamri			
5	Aeshah H Alamri, N Alhazmi	Development of data driven machine learning models for the prediction and design of pyrimidine corrosion inhibitors	Journal of Saudi Chemical Society	2022/11/1
6	IB Obot, Ashraf A Bahraq, Aeshah H Alamri	Density functional theory and molecular dynamics simulation of the corrosive particle diffusion in pyrimidine and its derivatives films	Computational Materials Science	2022/7/1
7	Kedila Rasheeda, Aeshah Hassan Alamri, PA Krishnaprasad, N Phadke Swathi, Vijaya DP Alva, Talal A Aljohani	Efficiency of a pyrimidine derivative for the corrosion inhibition of C1018 carbon steel in aqueous acidic medium: Experimental and theoretical approach	Colloids and Surfaces A: Physicochemical and Engineering Aspects	2022/6/5
8	N Phadke Swathi, Seranthimata Samshuddin, Aeshah Hassan Alamri, Kedila Rasheeda, Vijaya DP Alva, Talal A Aljohani	Experimental and theoretical investigation of a new triazole derivative for the corrosion inhibition of carbon steel in acid medium	Egyptian Journal of Petroleum	2022/6/1
9	Muntathir I AlBeladi, Yassine Riadi, Mohammed H Geesi, Oussama Ouerghi, Abdellah Kaiba, Aeshah Hassan Alamri, Talal A Aljohani	Benzalkonium chloride/titanium dioxide as an effective corrosion inhibitor for carbon steel in a sulfuric acid solution	Journal of Saudi Chemical Society	2022/5/1
10	Aeshah Alamir	Experimental and Theoretical Insights into the Synergistic Effect of Iodide Ions and 1-Acetyl-3-Thiosemicarbazide on the Corrosion Protection of C1018 Carbon Steel in 1 M HCl	Materials	2020,



11	Ruby Asla- Huda Ime Obot - Mohammad Mobin - Aeshah Alamir	Ionic liquids derived from α -amino acid ester salts as potent green corrosion inhibitors for mild steel in 1M HCl	journal-of-molecular-liquids	2020
12	Aeshah Alamir	Localized Corrosion and Mitigation Approach of Steel Materials Used in Oil and Gas Pipelines- An Overview	engineering-failure-analysis	2020
13	N. O. Alzamil G. M. Alenzi A.H. Al-amri I. Abdi and A. BenAli	Synthesis, Crystal Structures and Characterization of Two Nonmetal Cation Tetrafluoroborates	Crystals	2020
14	, Ikenna B. Onyechu, Ime Bassey Obot , Aeshah H. Alamri , chinenye A .Eziukwu ,	Effective acid corrosion inhibitors for X60 steel under turbulent flow condition based on benzimidazoles: electrochemical, theoretical, SEM, ATR-IR and XPS investigations.	European Physical Journal Plus	2020
15	Alamri, Aeshah H ; Ime B Obot ,	Highly efficient corrosion inhibitor for C1020 carbon steel during acid cleaning in multistage flash (MSF) desalination plant,	Desalination	2019
16	Onyechu, I. B; Chauhan, D. S; Ansari, K. R; Obot, I. B; Quraishi, M. A; Alamri, Aeshah H	Hexamethylene-1,6-bis(N-D-glucopyranosyl amine) as a novel corrosion inhibitor for oil and gas industry: Electrochemical and computational analysis,	New Journal of Chemistry	2019
17	Obot, I.B; Onyechu, Ikenna.B; Wazzan, Nuha; Al-Amri, Aeshah H	Theoretical and experimental investigation of two alkyl carboxylates as corrosion inhibitors for steel in an acidic medium	, journal-of-molecular-liquids	2019
18	Hajlaoui, Fadhel; Hadj Sadok, Ines Ben; Aeshah, H. Alamri; Audebrand, Nathalie; Roisnel, Thierry; Zouari, Nabil	Synthesis, crystal structures, second harmonic generation response and temperature phase transitions of two noncentrosymmetric Cu(II)-hybrid halides compounds: [(R)-C ₇ H ₁₆ N ₂][CuX ₄] (X = Cl or Br) ,	Journal of Molecular Structure	2019
19	Al-Amri, Aeshah H; Elroby, Shaaban A; Hilal, Rifaat H	Theoretical insight into the structure and bonding characteristics of Bisphenol-A. QTAIM and NBO analyses	Journal of Theoretical and Computational Chemistry	2018



20	O Kühn, SA Elroby, RH Hilal	Toward understanding tautomeric switching in 4-hydroxynaphthaldehyde and its dimers: A DET and quantum topology study.	Journal of Theoretical and Computational Chemistry	2015
21	O Kühn, SA Elroby, RH Hilal	Toward understanding tautomeric switching in hydroxynaphthaldehydes: absorption spectra,	Journal of Theoretical and Computational Chemistry	2015

Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
1	King Abdulaziz City for Science and Technology	(A-T-34-019)	2014
2	King Abdulaziz City for Science and Technology	(35-37)	2017

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
	Jeddah -1st International Conference on Applied Chemistry	Jeddah– (ICAC 2015) King Abdelaziz University	Presentation
	The Seventh Annual Conference	2018 -Cairo University	Poster
	The Sixth International Chemistry Conference	King Saud University, Riyadh	Poster
	Conference on Administrative Development in Light of Saudi Vision 2030	The Institute of Public Administration, Riyadh	Attendance only
	Gulf women and change leadership Institute of Management	The Institute of Public Administration, online	Attendance only
	International Conference on Education & Training Evaluation	Education ministry, online	Attendance only
	Improving Learning Outcomes & Supporting Economic Growth		



Teaching Activities Undergraduate

#	Course/Rotation Title	No./Code	The extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Instrumental Analysis II – lab	CHEM411	10 labs
2	Surface chemistry and catalysis (lab)	CHEM507	10 labs
3	Research Project	CHEM508	10 lectures
4	General Chemistry 1(lectures) General Chemistry 1(Lab)	CHEM203	15 lectures 12 labs
5	Electrochemistry	CHEM 406	lecture
6	Electrochemistry (Lab)	CHEM 406	12 Lab
7	Chemical Kinetics and Reaction Mechanisms.	CHEM 402	12 Lab
8	Thermodynamic	CHEM306	12 Lab
9	Inorganic chemistry	CHEM208	12 Lab
10	Quantum Chemistry	N427	13 lectures
11	Organic Chemistry (1)	Chem 113N	13 lectures
12	Organic Chemistry (1)	CHEM302	12 Lab - Teaching
13	Biochemistry (1)	BIOCH401	12 Lab
14	Organic preparations(lectures) 1(Lab)	459 N	13 lectures 12 Lab

Teaching Activities Postgrad.

#	Course/Rotation Title	No./Code	The extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Research Methods	CHEM 519	lectures
3	Advanced computational Chemistry	CHEM623	
4	Advanced Quantum Chemistry	CHEM 541	
5	Selected topics in Physical Chemistry I	CHEM 625	
6	Selected topics in Physical Chemistry I, master's degree	CHEM 549	
7	Seminar, master's degree	CHEM 520	
8	Selected topics in Physical Chemistry II, P.h.D	CHEM 626	



Course Coordination

#	Course Title and Code	Coordination	Co-coordination	Undergrad	Postgrad.	From	To
1	Electrochemistry	√		√		Semester	
2	Advanced computational Chemistry	√			√		
3	Advanced Quantum Chemistry	√			√		
4	Selected topics in Physical Chemistry I	√			√		
5	Selected topics in Physical Chemistry I, master's degree	√			√		
6	Selected topics in Physical Chemistry II, P.h.D	√			√		
7	Research Methods	√			√	2020	
8	Quantum Chemistry	√		√		2017	2020
9	Quantum Chemistry		√			2016	
10	Organic preparations		√			2017,2016	
11	Organic Chemistry (1)		√			2015	
12	Organic Chemistry (1),lab		√			2017	
13	General Chemistry 1	√ electronic course	√	√		2016	2020

Student Academic Supervision and Mentoring

#	Level	Number of Students	From	To
1	Different levels	26 students	Oct 2015	2021
2	Different levels	20 students	2020	2023

Supervision of Master and/or Ph.D. Thesis

#	Degree Type	Title	Institution	Date
	Master	Synthesis, physical and chemical characterizations of new copper or cobalt alkoxide	Imam Abdulrahman bin Feisal university	2018



Training courses or programs

#	The name of the course or program		
1	National Academic Talent Development Program. King Abdullah University of Science and Technology 2017	18	Workshops of the Academic Leadership
2	Ibn Khaldun Program. University of Imam Abdul Rahman bin Faisal 2017	19	A four-day intensive training program on Developing Core Competencies in Teaching and learning in Higher Education
3	Molecular Structure and Dynamics III (Theoretical Approaches for X-ray Spectra) for four days with participation from university of Rostock, Germany.	20	Workshop developing program and courses learning outcomes according to NQF and ABET
4	Gas phase reactions Catalysis and Molecular Interactions for two days with participation from Virginia commonwealth university, USA	21	The training program in the field of emergency response "The management of crises and disasters."
5	Nonadiabatic phenomena and excited-state dynamics for five days with participation from the Max-Planck Institute of Munich, Germany.	22	Implementing Project-Based Learning in Higher Education
6	Molecular Structure and Dynamics I for five days with participation from University of Rostock, Germany.	23	Independent Applying the QM Rubric (APPQMR
7	Workshop of the Databases (Summon &OPAC)	24	Training programs for applications for registration of donors and qualifications (SAQF)
8	Searching mechanisms in international libraries, journals and scientific service centers on scientific researcher website	25	Standards for Quality Assurance and Accreditation of Higher Education Programs with NCAAA Training
9	Train the trainers (TOT)	26	Problem-based learning (PBL)
10	workshops of the situation analysis and orientation by Thomson Reuters	27	Leadership skills and competencies
11	More than 25 workshops on teaching methods or strategies	28	Inspirational Leadership Course
12	Women's leadership form in Higher Education	29	Active learning & teaching
13	Faculty Mentorship Certification Program	30	Preparing Program Specifications
14	Strategic transformation of human resources operations	31	Writing an Effective Research Proposal
15	Human Resources Management	32	KPI's and Benchmarking with NCAAA Training



1 6	6-sigma green belt	33	Self-study report of the program with NCAAA Training
1 7	Quality of human resources management structure	34	

Administrative Responsibilities, Committee and Community Service (Beginning with the most recent)

Administrative Responsibilities

#	From	To	Position	Organization
	2015	2017	Member of the Advisory Committee, Department of Chemistry	Department of Chemistry - IAU

Committee Membership

#	From	To	Position	Organization
	2022	Present	Head of Curriculum Development Committee	Science college
	2020		Head committee for designing practical online lectures at the College of Science	Science college
	2020		Risk management	Science college
	2018	2019	Head the exam progress committee	Chemistry department
	2018		Member of QA Committee	Chemistry department
	2015		Member of student advisor	Chemistry department
	2015,2016		Deputy committee tables	Chemistry department
	2016		Quality Management Coordinator.	Chemistry department
	2009		Member of the Environment Friends Committee	Chemistry department

Volunteer Work

#	From	To	Type of Volunteer	Organization
1	2017		I received an e-learning award from the National Center for E-Learning in 2017	National Center for e-Learning
2	2016	now	My students and I introduced some videos on chemistry topics for both high school and university students through my YouTube channel. https://www.youtube.com/channel/UCYN3oKK9BOBIoBmPYRIJKmw	
3	2017, 2018		I presented a workshop titled 'Leading Personality' as part of the Prince Mohammed Bin Fahd Center for Young Leadership Development program, called The Skills.	In the Prince Sultan Bin Abdul Aziz Fund for Women's Development and
4	16 th 2017		A seminar for female university students was held at King Faisal University in Al-Ahsa	Aramco company.
5	13th March 2017		I presented a synchronous electronic lesson for intermediate-grade students at Al-Bassam schools,	13th March 2017



			marking the first time such a lesson was presented in public education	
6	2017,2018		I presented a workshop titled 'Introduction to EndNote' for IAU students	Science club in IAU
7	2016,2017		I participated in an educational café to learn about the latest strategies in teaching and evaluating students.	Deanship of Academic Development
8	29th December 2016		I presented a workshop titled 'Using Rubrics in the Graduation Project Course	Vice-Deanship of Quality Development and Academic Accreditation
9	2015		Awareness exhibition (Plastic the danger coming) at the Faculty of Science.	Ministry of Labor and Social Development

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

1	Advanced skills in computer
2	Responsibility
3	Problem-solving
4	Work effectively both as a team member and independently
5	Communication
6	Trustworthiness & Ethics
7	Organization

Last Update 2023



(7) [Dr-Aeshah Alamri | LinkedIn](#)

[Aeshah H. Al-amri, Ph.D. - Google Scholar](#)

(8) [Aeshah Alamri \(researchgate.net\)](#)