



Dr. Asma Mohammed Zamil Elsharif

Associate Professor in Organic Chemistry

Personal Data

Nationality | Saudi Arabia
Department | Chemistry
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Office Phone No. | 013 33 37079
Place of Birth | USA, North Carolina, Chapel Hill

Language Proficiency

Language	Read	Write	Speak
Arabic	√	√	√
English	√	√	√

Research profile links at International Databases

Database	Link
Google Scholar	https://scholar.google.com/citations?user=-yC_RJkAAAAJ&hl=en&authuser=1
Scopus	https://www.scopus.com/authid/detail.uri?authorId=57194062309
ResearchGate	https://www.researchgate.net/profile/Asma-Elsharif
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Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2009	PhD	Imam Abdulrahman Bin Faisal University	Dammam
2004	Master	Imam Abdulrahman Bin Faisal University	Dammam
2000	Bachelor	Imam Abdulrahman Bin Faisal University	Dammam

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

PhD	Synthesis and Study of New Corrosion Inhibitors - Based on Imidazolines, Isoxazolidines and some Polymers- for Oil and Gas Industry
Master	Synthesis and Study of Corrosion Inhibiting Activity of Several Isoxazolidinyl
Fellowship	Carbon nanotube films and their application for energy harvesting, Cranfield University, UK (2013-2014)
Fellowship	(2014-2016) Full-time, Massachusetts Institute of Technology, US (2017-Present) Part-time, Massachusetts Institute of Technology, US



Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work	Date
Associate Professor	Imam Abdulrahman Bin Faisal University	11/12/2019 to date
Assistant Professor	Imam Abdulrahman Bin Faisal University	07/07/2010 – 10/12/2019
Lecturer	Imam Abdulrahman Bin Faisal University	16/3/1428H-25/7/1431H
Demonstrator	Imam Abdulrahman Bin Faisal University	9/7/1423H-16/3/1428H

Executive Education Certificate

#	Program Title	Place and Address	Date of completion
01	Scientific Sabbatical	Chimie ParisTech, Paris, France	01/12/2023
02	Professional Fellowship in University Teaching and Learning (PFUTL) Program	Imam Abdulrahman bin Faisal University	24/05/2022
03	Executive Certificate in leadership	Berkeley, US	29/03/2018
04	MIT Sloan Executive Certificate in Strategy and Innovation	Massachusetts Institute of Technology, MIT Sloan School, US	06/06/2016
05	MIT Sloan Executive Certificate in leadership and management	Massachusetts Institute of Technology, MIT Sloan School, US	05/04/2016
06	Kaufman Teaching Certificate	Massachusetts Institute of Technology, US	17/05/2015
07	Scientific Sabbatical	Massachusetts Institute of Technology, US	03/09/2016
08	Scientific Sabbatical	Cranfield University, Bedfordshire, UK	06/08/2013

Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
Vice Dean of College of Science	College of Science	23/08/2016 - 17/09/2019

Scientific Achievements

Published Refereed Scientific Research

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
01	El-Rahman, Abubshait, Abubshait, Elsharif and Kamoun	The anti-aging, anti-tuberculosis, and antioxidant potential benefits of Saudi Arabia Olea-Europaea Leaves extracts	<i>Brazilian Journal of Biology</i> , 2024; 84, e270885



02	Elsharif, Almarzooq and Saleh	Synthesis and characterization of gold nanohybrid and its efficiency for benzaldehyde reduction	<i>Journal of Molecular Structure</i> , 2023; 1289: 135790
03	Asma Elsharif*	Synthesis and evaluation of newly E-octadec-9-enoic acid derivatives as sustainable corrosion inhibitors for mild steel in 1.0 M HCl	<i>Arab Journal of Basic and Applied Sciences</i> , 2023; 30: 26–45
04	Almuzafar, AlDuhaisan, Ahmed, Elsharif*, Rehman, Akhtar, Alsalem and Khan	Synthesis and characterizations of Fe (II) phthalocyanine and Zn phthalocyanine on colon cancer, cervical cancer, and bacterial cells	<i>Arab Journal of Basic and Applied Sciences</i> , 2023; 30: 208–220
05	Abdulazeez, Billel, Elsharif*, Ahmad, Baig, and Abdelnaby	Hemin-Modified Multi-Walled Carbon Nanotube-Incorporated PVDF Membranes: Computational and Experimental Studies on Oil–Water Emulsion Separations	<i>Molecules</i> , 2023; 28: 391
06	Duari, Biswas, Roy, Maity, Mishra, Souza, Elsharif, Morgon, and Biswasa	Regioselective N-Functionalization of Tautomerizable Heterocycles through Methyl Trifluoromethanesulfonate-Catalyzed Substitution of Alcohols and Alkyl Group Migrations	<i>Advanced Synthesis & Catalysis</i> , 2022; 364: 865 – 872
07	Almuzafar, Ahmed, AlDuhaisan, Elsharif, Aldossary, Rehman, Akhtar, and Khan	Synthesis of 29H,31H-phthalocyanine and chloro (29H,31H-phthalocyaninato) aluminum derivatives showed anti-cancer and anti-bacterial actions	<i>Journal of Saudi Chemical Society</i> , 2022; 26(2): 101436
08	Biswas, Duari, Maity, Roy, Elsharif, Biswas	[3+2] Cycloaddition of 2-alkoxynaphthalenes with azaoxyallyl cations: access to benzo[e]indolones	<i>Organic & Biomolecular Chemistry</i> , 2022; 20(43): 8400-8404
09	Abubshait, Abubshait, Nabil, Elsharif, Alkahtani, Aleanizy, and Shaikh	SPIONs as a nanomagnetic catalyst for the synthesis and anti-microbial activity of 2-aminothiazoles derivatives	<i>Arabian Journal of Chemistry</i> , 2022; 15(7): 103878



10	Elsharif, Abdulazeez, Almarzooq, and Haladu	Synthesis, and experimental evaluation of novel 4-(-3-(2-hydroxyethoxy)-3-oxopropenyl)-1,2-phenylene nano hybrid derivatives as potential corrosion inhibitors for mild steel in 1 M HCl	<i>Journal of Industrial and Engineering Chemistry</i> , 2022; 116: 474-488
11	Shaban, Hamed, Elsharif, Elged, and Basiony	Preparation gemini non-ionic surfactants-based polyethylene oxide with variable hydrophobic tails for controlling the catalytic and antimicrobial activity of AgNPs	<i>Journal of Molecular Liquids</i> , 2022; 367: 120416
12	A. Khan, A. Elsharif, A. Helal, Z. Yamani, A. Hakeem, and M. Y. Khan	Mixed Dimensional Nanostructure (UiO66 decorated MWCNT) as Nanofiller in MMMs for Enhanced CO ₂ /CH ₄ Separation	<i>Chem. Eur. J.</i> , 2021; 27: 11132–11140
13	T. Saleh, A. Elsharif, O. Bin-Dahman	Synthesis of amine functionalization carbon nanotube-low symmetry porphyrin derivatives conjugates toward dye and metal ions removal	<i>Journal of Molecular Liquids</i> , 2021; 340: 117024
14	S. Maity, A. Roy, S. Duari, S. Biswas, A. Elsharif, S. Biswas,	Brønsted Acid Mediated Nucleophilic Functionalization of Amides through Stable Amide C–N Bond Cleavage; One-Step Synthesis of 2-Substituted Benzothiazoles	<i>European Journal of Organic Chemistry</i> , 2021; 25: 3569–3572
15	N. Jia, S. Asiri, A. Elsharif, W. Alamodi, E. Al-Suhaimi, S-G. Kim	Design of inverted nano-cone arrayed SERS substrate for rapid detection of pathogens	<i>Appl. Sci.</i> , 2021; 11: 8067
16	Padrón, Zhao, Carrion, Torres, Elsharif, Balu, Luque, Len	Exploring the potential of biomass-templated Nb/ZnO nanocatalysts for the sustainable synthesis of N-heterocycles	<i>Catalysis Today</i> , 2021; 368: 243-249



17	Elías, Sathicq, Cuello, Luque, Elsharif, Tolley, Romanelli, Eimer	Design of Fe-modified mesoporous nanostructures as efficient catalysts for microwave-assisted selective oxidations of sulfides	<i>Applied Catalysis A: General</i> , 2021; 615: 118027
18	Badr, Shafek, Hefni, Elsharif, Alanezi, Shaban, Kim	Synthesis of Schiff base-based cationic Gemini surfactants and evaluation of their effect on in-situ AgNPs preparation: Structure, catalytic, and biological activity study	<i>Journal of Molecular Liquids</i> , 2021; 326: 115342
19	Shaban, Elbhrawy, Fouda, Rashwan, Ibrahim, Elsharif	Corrosion inhibition and surface examination of carbon steel 1018 via N-(2-(2-hydroxyethoxy)ethyl)-N,N-dimethyloctan-1-aminium bromide in 1.0 M HCl	<i>Journal of Molecular Structure</i> , 2021; 1227: 129713
20	Elged, Shaban, Eluskkary, Soliman, Elsharif, Kim	Impact of hydrophobic tails of new phospho-zwitterionic surfactants on the structure, catalytic, and biological activities of AgNPs	<i>Journal of Industrial and Engineering Chemistry</i> , 2021; 94 (25): 435-447
21	Frenzel, Palermo, Sathicq, Elsharif, Luque, Pizzio, Romanelli	A green and reusable catalytic system based on silicopolyoxo tungstovanadates incorporated in a polymeric material for the selective oxidation of sulfides to sulfones	<i>Microporous and Mesoporous Materials</i> , 2021; 330: 110584
22	Asma Elsharif*	Rapid Detection of COVID 19 via Surface Enhanced Raman Spectroscopy	<i>International Journal for Research in Applied Science & Engineering Technology</i> , 2020; 45: 715-720
23	Chaparro, Rojas, Castillo, Portilla, Romanelli, Pineda, Elsharif, Martinez, Luque	Solventless Amide Synthesis Catalyzed by Biogenic CaCO ₃ Materials	<i>ACS Sustainable Chemistry & Engineering</i> , 2020; 8(5): 13139–13146



24	Asma Elsharif*	Geometry and Polarization Effects in Designing Metallic-Semiconductor Nanostructures for Plasmonic Hot Carrier Collection	<i>Plasmonics</i> , 2020; 15: 1729-1737
25	Elsharif*, Abubshait, Abdulaziz, Abubshait	Synthesis, characterization, and corrosion inhibition studies of polyunsaturated fatty acid derivatives on the acidic corrosion of mild steel: Experimental and computational studies	<i>Journal of Molecular Liquids</i> , 2020; 319: 114162
26	Saleh, Elsharif, Asiri, Dafalla	Synthesis of CNT grafted with Copolymer of Acrylic Acid and Acrylamide for Phenol Removal: immobilization mechanism	<i>Environmental Nanotechnology, Monitoring and Management</i> , 2020; 14: 100302
27	Elsharif*, Abubshait, Abdulaziz, Abubshait	Synthesis and study a new class of corrosion inhibitors derived from natural fatty acid: 13- docosenoic acid amides derivatives for oil and gas industry	<i>Arabian Journal of Chemistry</i> , 2020; 13 (5): 5363-5376
28	Aljameel, Fataftah, Abd-Rahman, Elsharif, Kamoun	Ultrasound Synthesis of Benzimidazolo-1,3,5-triazine Derivatives and their Antihistamine and Anti-diabetic Activities	<i>Oriental Journal of Chemistry</i> , 2019; 35 (4): 658-667
29	Elsharif, Al-Ghamdi, Abdel-Naby	Modification of Poly (vinyl chloride) by N-Phenyl Itaconimides for the Improvement of Its Thermal Stability	<i>Journal of Chemistry</i> , 2019
30	Asma Elsharif*	Synthesizing New Pyrimidinone Derivatives and Their Respective Biological Structure Assessment	<i>Oriental Journal of Chemistry</i> , 2019; 35: 658-667



31	Al-Ghamdi, Al-Harathi, Elsharif, Abdel-Naby	Cyclocopolymerization of <i>N,N</i> -Diallylammonium and <i>N,N</i> -Diallylguanidinium Acetate with Acrylonitrile Characterization, Thermal and Morphological Properties	<i>Arabian Journal for Science and Engineering</i> , 2019; 44: 6303–6311
32	Elsharif, Youssef, Al-Jameel, Mohamed, Ansari, Rehman, Akhtar	Synthesis of An Activatable Tetra-Substituted Nickel Phthalocyanines-4(3H)-Quinazolinone Conjugate and Its Antibacterial Activity	<i>Advances in Pharmacological Sciences</i> , 2019
33	Fadeel, Al-Toukhy, Elsharif, Al-Jameel, Mohamed, Youssef	Improved photodynamic efficacy of thiophenyl sulfonated zinc phthalocyanine loaded in lipid nano-carriers for hepatocellular carcinoma cancer cells	<i>Photodiagnosis and Photodynamic Therapy</i> , 2018; 23: 25-31
34	Nabil, Abd El-Rahman, Al-Jameel, Elsharif	Conversion of Curcumin into Heterocyclic Compounds as Potent Anti-diabetic and Antihistamine Agents	<i>Biological and Pharmaceutical Advance Publication</i> , 2018; 41 (7): 1071-1077
35	Asma Elsharif*	The Effect of the Electron Tunneling on the Photoelectric Hot Electrons Generation in Metallic-Semiconductor Nanostructures	<i>Chemical Physics Letter</i> , 2018; 691: 224-230
36	Asma Elsharif*	Effect of Organo-Nitrogen Compounds on Inhibition Efficiency of Mild Steel Corrosion in Acidic Media	<i>Asian Journal of Chemistry</i> , 2017; 29 (8): 1779-1784
37	Li, Chou, Kwan, Elsharif, Kim	Effect of anisotropic electron momentum distribution of surface Plasmon on internal photoemission of a Schottky hot carrier device	<i>Optics Express</i> , 2017; 25 (8): A264-A273
38	Chou, Li, Wang, Fenning, Elsharif, Viegas, Jouiad, Horn, Kim	Surface Plasmon assisted hot electron collection in wafer-scale metallic-semiconductor photonic	<i>Optics Express</i> , 2016; 24 (18): A1234-A1244
39	Ali, Haladu, Elsharif	Synthesis and application of a cyclopolymer bearing a propylphosphonic acid and a propylcarboxylic acid pendants in the same repeating unit	<i>Journal of Polymer Research</i> , 2016; 23 (8): 167
40	Ali, Haladu, Elsharif	Diallylbis (3-ethoxycarbonylpropyl) ammonium Chloride: A Symmetrically Substituted Monomer for the Synthesis of an Alternate Zwitterionic-Anionic Cyclopolymer	<i>Macromolecular Research</i> , 2016; 24 (2): 163-169



41	Ali, Saeed, Elsharif	Diallyl-1,12-diaminododecane-Based Cyclopolymers and Their Use as Inhibitors for Mild Steel Corrosion	<i>Polymer Engineering and Science</i> , 2012; 52 (12): 2588–2596
42	Ali, Elsharif	A Novel class of bisquaternary ammonium salts in inhibition of mild steel corrosion in HCl and H ₂ SO ₄	<i>Corrosion Engineering, Science and Technology</i> , 2012; 47 (4): 265-271
43	Ali, Zaidi, Elsharif, Al-Taq	Cyclopolymers from N, N-diallyl-N-propargyl-(12-N'-formylamino)-1-dodecylammonium chloride and their use as inhibitors for mild steel corrosion	<i>Polymer Bulletin</i> , 2012; 69 (4): 491-507
44	Al-Ghamdi, Elsharif, Saeed, Ali	The effects of structural variation in some isoxazolidines on the corrosion inhibition of mild steel in 1 N sulfuric acid	<i>Anti-Corrosion Methods and Materials</i> , 2008; 55 (5): 270-277
45	Ali, Elsharif, Muallem	Synthesis, viscosity behavior, and interactions with a surfactant of some amphiphilic copolymers of diallyldimethylammonium chloride and diallyldodecyl- or diallyloctadecyl-ammonium chloride	<i>Journal of Applied Polymer Science</i> , 2008; 109 (8): 3256 - 3265
46	Al-Ghamdi, Ali, Elsharif	Synthesis and study of corrosion inhibition of isoxazolidines for mild steel in acid medium	<i>Journal of Saudi Chemical Society</i> , 2006; 9 (3): 673-682
47	Elsharif, Al-Ghamdi, Ali	Synthesis of hydrophobically modified isoxazolidines for their potential use as corrosion inhibitors	<i>Oriental Journal of Chemistry</i> , 2005; 21 (1)
48	Ali, Elsharif, Al-Ghamdi, Saeed	The isoxazolidines: the effects of steric factor and hydrophobic chain length on the corrosion inhibition of mild steel in acidic medium	<i>Corrosion Science</i> , 2005; 47 (11): 2659-2678

Contribution to Scientific Seminars

#	Conference Title	Place and Date of the Conference	Extent of Contribution
01	Synthesis of amine functionalization carbon nanotube-low symmetry porphyrin derivatives conjugates toward dye and metal ions removal “Scientific Seminar”	IAU 27/09/2022	Presented
02	Problem -Based Learning Strategies to Enhance Conceptual Understanding of Chemistry “Scientific Seminar”	IAU 21/02/2022	Presented



03	Writing Scientific papers “Scientific Seminar”	IAU 28/10/2021	Presented
04	A green and reusable catalytic system based on silicopolyoxo tungstovanadates incorporated in a polymeric material for the selective oxidation of sulfides to sulfones “Scientific Seminar”	IAU 03/11/2020	Presented
05	Solventless Amide Synthesis Catalyzed by Biogenic CaCO ₃ Materials “Scientific Seminar”	IAU 29/09/2020	Presented
06	Synthesis, characterization and corrosion inhibition studies of polyunsaturated fatty acid derivatives on the acidic corrosion of mild steel: Experimental and computational studies “Scientific Seminar”	IAU 29/09/2020	Presented
07	Synthesis of a new class of corrosion inhibitors derived from natural fatty acid: 13-Docosenoic acid amide derivatives for oil and gas industry “Scientific Seminar”	IAU 08/09/2020	Presented
08	Synthesis of CNT grafted with Copolymer of Acrylic Acid and Acrylamide for Phenol Removal: immobilization mechanism “Scientific Seminar”	IAU 08/09/2020	Presented
09	Hexamethylene-1,6-bis (N-D glucopyranosyl amine) as a novel corrosion inhibitor for oil and gas industry: Electrochemical and computational analysis “Scientific Seminar”	College of Science, IAU 03/11/2019	Attended
10	Theoretical and experimental investigation of two alkyl carboxylates as corrosion inhibitors for steel in acidic medium “Scientific Seminar”	College of Science, IAU 03/11/2019	Attended
11	Highly efficient corrosion inhibitor for C1020 carbon steel during acid cleaning in multistage flash (MSF) desalination “Scientific Seminar”	College of Science, IAU 03/11/2019	Attended



12	Chem Draw The Gold Standard for Chemical Structure Drawing and Research Course	Saudi Chemical Society IAU 19/11/2019	Presented
13	Design and Synthesis of Highly Efficient Photocatalysts for Environmental Remediation “Scientific Seminar”	College of Science, IAU 29/09/2019	Attended
14	Green Corrosion Inhibitors: Green Solutions for Corrosion Challenges “Scientific Seminar”	Al Khobar, KSA 25 /09/2019	Attended

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
01	Successful Scientific Researcher Program	IAU 15/12/2022	Attended/presented Review and arbitration of scientific papers
02	Sustainable Partnerships Conference	Ministry of Education Riyadh 23-24/11/2022	Attended/presented Building and Sustaining the innovative Organization
03	KAUST Workshop on Organic Semiconductors and Flexible Electronic	KAUST 10-12/10/2022	Attended
04	University Teaching and Learning Exhibition (TLEX22)	IAU 23-25/05/2022	Attended/presented PBL Strategies to Enhance the Conceptual Understanding of Chemistry
05	The second international webinar on Science, Sustainable Development, and Ecosystems in Saudi Arabia 2022	IAU 14-17/02/2022	Attended/presented Valorization of waste feedstocks using the green synthesis approach
06	The international webinar on Science, Sustainable Development, and Ecosystems in Saudi Arabia 2021	IAU 6-7/04/2021	Attended/presented Solar Energy Water Splitting for Storable Fuel Generation
07	Recent trends in building academic programs in university education	IAU 30-31/03/2021	Attended
08	Knowledge Integration Fourm	Ministry of Education 01-30/11/2020	Attended/presented Rapid Detection of COVID 19 via Surface Enhanced Raman Spectroscopy



09	Innovation in nanotechnology What is nanotechnology and how will it shape our present and future?	KFUPM, KSA 07/10/2020	Attended
10	Translational Medicine Approach to COVID-19 in Saudi Arabia	IBK, MIT 16/09/2020	Attended
11	The energy, water and food security and its relationship to balanced development in the countries of the Middle East and North Africa	Riyadh Chamber, KSA 06/09/2020	Attended
12	Distance and traditional education: Competition or integration seminar	National e-Learning Center 26/04/2020	Attended
13	The role of intellectual property in building a knowledge economy Forum	IAU 26/04/2020	Attended
14	<i>Thriving in the Age of Corona Challenges and Opportunities Forum</i>	KFUPM, KSA 21/04/2020	Attended
15	<i>The initiative of the Ministry of Education to hold workshops to address the challenges of the Corona pandemic Forum</i>	Ministry of Education 19,22/04/2020	Attended
16	Forum of Female Academic Leaders in Saudi Universities	IAU KAUST 5-6/02/2020	Attended
17	A life of innovation: teaching learning to innovate Seminar	IAU 22/01/2020	Attended
18	23 rd International Conference on Nanomaterials and Nanotechnology	London, UK 15-16 /03/2018	Attended/presented Metallic Semiconductor Photonic Crystal coated with vertical Gold Nanorods for hot Electron Generation
19	Women Leadership Forum in University Education	IAU 1-3/03/2018	Attended
20	Q3 Industry GROW Meeting	Saudi Aramco 20/09/2017	Attended
21	Women in The Workforce Forum “Creating Opportunity for Economic Prosperity”	Saudi Aramco 26/04/2017	Attended
22	National Academic Talent Development Program	KAUST 20/04/2017	Attended
23	Q1 Industry Partner Meeting	Saudi Aramco	Attended



		15/2/2017	
24	Conference on the role of universities in activating Vision 2030	Qassim University, KSA 11-12 /01/2017	Attended/presented <i>Development Initiative of</i> academic programs to activate the vision 2030 – IAU sample

Workshops

#	The name of the session or workshop	Place and Date of the course
01	Unleash your Entrepreneurial Talent and Discover the Market Opportunities	IAU (12/10/2020)
02	Developing the basic competencies in teaching and learning	IAU (10/10/2020)
03	Development through Peer Observation of Teaching	IAU (29/09/2020)
04	Converting research into commercial assets	IAU (28/09/2020)
05	High-Quality Assessment using Rubrics	IAU (09/09/2020)
06	21 st Century Teaching Skills in the Classroom	IAU (01/09/2020)
07	Leading Innovation and Inclusion	MIT (27/08/2020)
08	Boosting Student Engagement & Interaction in the Online Classroom	IAU (26/08/2020)
09	The Role of Science and Community in the Circular Economy	KFUPM (24/08/2020)
10	Development through peer Observation of Teaching (POT)	IAU (19/08/2020)
11	Effective Formative Assessment in the 21 st Century Classroom	IAU (18/08/2020)
12	The Art of Original Leadership: Authentic Leadership Workshop	IAU, KAUST (05/02/2020)
13	Building Entrepreneurial Ideas and Business Models Workshop	IAU (27-28/01/2020)
14	The Language of Innovation Workshop	IAU (22/01/2020)
15	Key performance indicators & benchmarking	IAU (30/03/2017)

Training courses or programs

#	The name of the session or course or program	Place and Date of the course
01	Active learning in the higher education	IAU (4-5/02/2020)
02	Entrepreneurship Training course	IAU (17/11/2019)
03	Creating a positive Classroom Community	IAU (20/08/2019)
04	Teaching large classes: strategies and Technology tools	IAU (20/08/2019)
05	Chemists the Kingdom Needs to Meet Future Industrial Challenges	Al Khobar (16/09/2019)
06	Leading Innovation: Towards Vision 2030, Sloan School	MIT (23-27/07/2018)



07	KAUST Saudi Leadership Program	KAUST (24-29/03/2018)
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Membership of Scientific and Professional Societies and Organizations

- Saudi Chemical Society
- American Chemical Society
- Australian Chemical Society

Teaching Activities

Undergraduate Courses

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
01	2.674 Hands on micro and Nano engineering at MIT		15 Practical
02	Organic Chemistry (1)	CHEM 162	15 Lectures
03	Organic Chemistry (1)	CHEM 162	12 Practical
04	General Chemistry	CHEM 203	15 Lectures
05	Stereochemistry of Organic Chemistry	CHEM 353	15 Lectures
06	Organic Spectroscopy	CHEM 355	15 Lectures
07	Organic Spectroscopy	CHEM 355	12 Practical
08	Organic Chemistry 2	CHEM 251	15 Lectures
09	Organic Chemistry	CHEM 113	15 Lectures
10	Biochemistry (2)	CHEM 362	12 Practical
11	Safety in Chemistry laboratory	CHEM 202	12 Practical
12	Research Project	CHEM 474	15 Lectures
13	Chemistry of Petroleum and Petrochemicals	CHEM 405	15 Lectures

Graduate Courses

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials or labs, Clinics)
01	Physical Organic (Master)	CHEM 528	15 Lectures
02	Advanced Organic Spectroscopy (Master)	CHEM 521	15 Lectures
03	Nanotechnology for Organic Synthesis (PhD)	CHEM 604	15 Lectures



04	Advance Reaction Mechanism (PhD)	CHEM 602	15 Lectures
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Supervision of Master and/or PhD thesis

Ongoing Research Supervision

#	Degree Type	Title	Institution	Date
01	Master	Synthesis and Characterization of new derivatives of N-Substituted Phenyl Benzimidazoly-1,3,5-triazine	IAU	2019 Complete
02	Master	Synthesis and Characterization of Some Novel Nonionic Surfactants Derivatives for Oil and Gas Industry	IAU	2021 Complete
03	PhD	Synthesis and study of novel phthalocyanine derivatives for the Corrosion inhibition of aluminum in an acidic medium	IAU	2022 Ongoing
04	Master	The use of novel bio-inspired chitosan derivatives as corrosion inhibitors during oil-well acidizing	IAU	2022 Ongoing

Participate as a referee in scientific journals, dissertation, scientific books

#	The name of the journal, dissertation, book
01	Master Dissertation under title “Studies on Synthesis and Characterizations of Starch Base Copolymer and its Adjustment for Various Industrial Applications”, 2018, IAU
02	Master Dissertation under title “Extraction, Characterization and Spectral Determination of Omega Fatty acids from some Fish in Saudi Arabia”, 2019, IAU
03	Master Dissertation under title “In vitro susceptibility of Staphylococcus aureus to porphyrin-silver mediated photodynamic antimicrobial chemotherapy”, 2020, Rhodes University, South Africa
04	PhD Dissertation under title “Inhibition of Aluminum corrosion using phthalocyanines - Experimental and computational studies” submitted by Nnaji Nnaemeka Joshua, 2021, Rhodes University, South Africa
05	Master Dissertation under title “Synthesis and Characterization of Polynuclear Rare-earth based Metal-Organic Frameworks for Environmental and Clean Energy Applications”, 2022, KAU, Saudi Arabia

Administrative Responsibilities, Committee and Community Service

(Beginning with the most recent)

Administrative Responsibilities

#	From	To	Position	Organization
01	2016	2019	Vice Dean of College of Science	Imam Abdulrahman bin Faisal University
02	2016	2019	Member of College Council	Imam Abdulrahman bin Faisal University



03	2009	Present	Member of Chemistry Department Council	Imam Abdulrahman bin Faisal University
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Volunteer Work

#	From	To	Type of Volunteer	Organization
01	11/12/2022	15/12/2022	Conduct a community workshop entitled: Review and arbitration of scientific papers	IAU
02	22/11/2022	22/11/2022	Celebration of International Children's Day	IAU
03	21/02/2022	21/02/2022	Conduct a community workshop entitled: Problem -Based Learning Strategies to Enhance Conceptual Understanding of Chemistry	IAU
04	28/10/2021	28/10/2021	Conduct a community workshop entitled: Writing Scientific Papers	IAU
05	30/05/2021	Present	Mentor for gifted student	National Olympiad for Scientific Creativity - Mawhiba
06	2016	Present	Contribute to clean and renewable energy research	IAU
07	2020	2022	Contribute to COVID 19 research	IAU
08	01/06/2019	01/08/2019	Manger	Summer program for gifted students, collaborate with Mawhiba at IAU
09	25/12/2017	25/01/2018	Head of the Scientific committee	Mawhiba program for gifted students, collaborate with IAU

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

01	Leadership & Management
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02	Strategic Plan
03	Innovation
04	Characterization software
05	Computer
06	Simulation Programs (Lumerical simulation and COMSOL Multiphysics)

Last Update
01/22/2025