

### PROFILE

## SEHAM S. ALTERARY

Associate Professor in Organic Chemistry & Nanotechnology

### CONTACT

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57190867729

### Education

# Bachelor of Science degree in *chemistry* [1994]

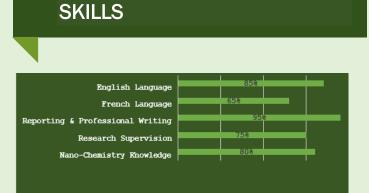
with VERY GOOD grade, from KAU, Faculty of Science. Master degree of science degree in *chemistry* [2003] with EXCELLENT grade, from KAU, Faculty of Science.

# PhD degree of science degree in spectroscopic methods [2008]

HORONABLE grade, from **Paris VII** "Denis Diderot" Université.

## **ADMINSTRATIVE POSITIONS**

Vice-chairman of Physics & Astronomy Department [From 2014-2017] At College of Science, King Saud University Vice-chairman of Chemistry Department [06/10/2017-29/07/2021] At College of Science, King Saud University Nanotechnology unit supervisor in Girls University City [2016-2020] A female branch of King Abdullah Institute for Nanotechnology Deputy Dean of King Abdullah institute for Nanotechnology for the female branch [2020-till now]



Research a	nd experience Conferences
	The Saudi Water Forum is in its third session from April 29 to May 1 at
2024	the Riyadh Hilton Hotel, sponsored by the Ministry of Environment, Water and Agriculture.
2023	Participate in attendance <b>The 3<sup>rd</sup> forum of the Scientific Journals Unit</b> entitled "Artificial Intelligence in Digital Publishing: A Global Vision and the Vision of King Saud University"
2023	<b>Poster</b> participation in <b>Third World Conference on Palm By-Products and</b> <b>Their Applications (ByPalma) entitled "</b> Sustainable Approaches for the Fabrication of Cellulose-Polyamide Membranes Based on Date Palm Leaves for Water Treatment <b>" at Riyadh Interface for Exhibitions and Conferences</b> <b>from</b> 2023/12/7-5 (.1445/06/23-21)
2023	<b>Poster</b> participation in <b>"The International Conference and Exhibition for</b> <b>Science (ICES23)";</b> 06-08,Feb 2023 Riyadh, Saudi Arabia
2023	Participate in attendance "Future Mineral Forum2023" King AbdulAziz International Conference Center Riyadh, Saudi Arabia11-12 January 2023
2022	Participate in attendance "Future of Desalination International Conference" Hilton Riyadh Hotel & Residences-KSA 11-13 September 2022
2021	Participate in attendance "9 <sup>th</sup> International Scientific Conference on Water Resources & Arid Environments (ICWRAE)" 29-31 March 2021
2019	Participate in attendance in <b>4<sup>th</sup> Symposium on Women in Chemistry</b> at The Hague, Netherlands 24,June 2019,1 day.
2019	Participate in a poster at 6 <sup>th</sup> Nano Today Conference, Lisbon-Portugal. 16-20 June,4 days
2019	Participate in <b>Riyadh Valley Company RVC Venture Capital Conference</b> , Burj Rafal Hotel-Kempiniski, Riyadh. 28-29 Jan 2019, 2 days
2018	Participate in International conference on Education Evaluation, Kingdom Hall-Four Seasons Hotel-Riyadh. 04-06/12/2018, 3 days
2018	participate by presenting a poster in <b>7<sup>th</sup> International Chemical</b> <b>Conference</b> Riyadh-KSU. 12-14 Nov. 3 days
2016	Participate in attendance in 6 <sup>th</sup> International Chemistry Conference, Riyadh-KSU. 08-10 Nov. 3 days
2016	Participate as speaker in Nano 2016-XIII International Conference on Nanostructured Materials. Québec, Canada Québec City Convention Centre, 07-12/08/2016. 6 days.
2015	Participate in attendance in <b>the 2<sup>nd</sup> Saudi International Conference on</b> <b>Scientific Publishing</b> , Deanship of Scientific Research, KSU. 11-13 Oct, 3 days.
2015	Participate in attendance in <b>12<sup>th</sup> International conference on material chemistry MC12</b> , York-UK. 20-23 July. 4 days
2014	Participate in attendance in <b>the 3<sup>rd</sup> Saudi International Nanotechnology</b> <b>conference 2014 (3SINC)</b> And KACST-KAUST-UCSB workshops on solid state lighting Riyadh (1436), <i>King Abdulaziz City for Science and</i> <i>Technology</i> (KACST). 3 days

2013	Participate in attendance in The <b>MiMe- Materials in Medicine</b> International Conference 1 <sup>st</sup> edition, Faenza-Italy. 8-11/Oct. 4 days
2012	Participate in attendance in the 2 <sup>nd</sup> Saudi International Nanotechnology conference 2012 (2SINC) "Nanotechnology innovation opportunities for future", Riyadh (1433), <i>King Abdulaziz City for Science and Technology</i> (KACST). 3 days
2012	Participate in attendance in <b>The International Symposium on Click</b> <b>Chemistry; The Way Forward</b> , 2012 (1433), Nottingham UK. Organized by <b>The University of Nottingham</b> . 3 days
2011	Participate in attendance in the Fourth International Chemistry Conference 2011 (1432), Riyadh, <b>Chemistry and its Role and Application</b> <b>in Development</b> . Organized by <b>The Saudi Chemical Society</b> and <b>King Saud</b> <b>University's Chemical Department</b> . 3days
2007	Participate in the E-MRS 2007 SPRING MEETING CONFERENCE, Strasbourg (France), in Symposium O, Functional organic & inorganic materials for micro and nano Bio-sensing system with Oral presentation and Submitted article; "Preparation and characterization of water- soluble CdS QD through surface modification of carboxylate end-capped group".
WORKSHOP	PS
2025	Lecture on " <b>The Application of Specialized Academic Standards and</b> <b>Learning Outcomes</b> " held on 13 <sup>th</sup> of January 2025, Organized by National Center for Academic Evaluation and Accreditation
2024	Workshop entitled " <b>Preparing and Designing Training Portfolio</b> " 15 hours during 3 days, starting from 6 <sup>th</sup> of October 2024 Organized by Sahm Certified Training Center and Technical and Vocational Training Corporation
2024	Workshop entitled" <b>Training of Trainers-TOT</b> " 30 hours during 6 days, starting from 29 <sup>th</sup> of September 2024, Organized by Sahm Certified Training Center and Technical and Vocational Training Corporation
2024	Workshop entitled "Enhancing supervisors' skills in dealing with gifted students " organized by King Abdulaziz & his Companions Foundation for Giftedness & Creativity (Mawhiba) Within the professional development

- Giftedness & Creativity (**Mawhiba**) Within the professional development program for enrichment program presenters. 3 hours, 02<sup>nd</sup> of June 2024 Workshop entitled "**The Unique Approach to Commercializing**
- 2024Innovation" organized by The Research, Development and Innovation<br/>Development Authority(RDIA) on 21 May 20242023Participate in workshop titled with "ChatGPT in Teaching and Education"<br/>Which was held in Riyadh from 20/8/2023 To 21/8/20232023Participate in workshop titled with "Marketing innovations to build a<br/>knowledge society" within the Empower the Entrepreneurial Professor<br/>initiative organized by Ministry of Education held at King Abdulaziz Center<br/>for National Dialogue 10/05/2023-20/10/1444

Workshop about " <b>Benefits and advantages of the e-book</b> ", By McGraw Hill 2023/02/26
Webinar:" <b>Communication skills in the work environment</b> " by Mr. Sulaiman AlEnizi accompanying The International Conference and Exhibition for Education 2022 (ICEE 2022)
Webinar: "Improving student outcomes in Chemistry" Organized by: Cengage. 29 March 2022
Symposium on "Innovative Materials for a Sustainable Future" Organized by: College of Chemicals and Materials at King Fahad University of petroleum and minerals. 24 Feb 2022
Webinar: Challenges and opportunities for Saudi Arabian Economy in the Era of COVID-19 and Post COVID-19. Organized by; Asian Universities Aliance & Director of International Cooperation and Scientific Twinning Department, King Saud University. 21 Oct. 2021
Workshop titled "Quality of drinking water and its impact on human health and the environment" organized by Ministry of Environment, Water and Agriculture. 29/06/2021
Virtual attendance "Awareness program to combat desertification according to the Kingdom's vision 2030" organized by College of Science-KSU-17/06/2021
Virtual symposium <b>"Empowering Diversity in Science: Gender</b> <b>in Academia and Publishing"</b> organized by <b>Chemistry Europe</b> <i>Angewandte Chemie- Wiley-VCH</i> . 25/02/2021
Online Workshop on Entrepreneurial Universities; organized by Ministry of Education Agency for Research and Innovation with the Participation of Private and Governmental Universities 04/10/2020
International Workshop :Foresight: Science for Navigating Critical Transitions, August 10- 11, 2020- Science 20 TF Circular Economy-2 days.
International virtual Symposium organized by" Chemistry Europe titled with 'Self Care is Not the Enemy of Performance" Presented by Jen Heemstra. 28/07/2020-07/12/1441
Attending the virtual meeting entitled "Women Leaders Meeting on Saudi Universities and the Coronavirus Crisis" organized by the University deanship of Female Student Affairs at King Khalid University held on 11/29/1441 corresponding to 07/20/2020
Attendance workshop titled with; Workshop on "Circular Carbon Economy (CCE) Technology and Innovation"; Climate Stewardship working Group (CSWG). Hosted by Saudi G20 Presidency; held at The Ritz-Carlton, Riyadh; for 2 days 01-02/03/2020
Attendance workshop titled with; "MATLAB Campus Wide License" organized by Deanship of e-Transaction and Communication; 20/10/2019; 1 day

2019	Attendance at " <b>The Third Quality Forum in Higher Education</b> " Organized by Education & Training Evaluating Commissions. held at Fairmont Riyadh Hotel; 10/10/2019
2019	Workshop titled with "The Integration between The Professional Standards and The Teacher Preparation Program in Saudi universities". Organized by Education & Training Evaluating Commissions. held at Crowne Plaza Hotel Riyadh; 03/10/2019
2018	Attendance workshop titled with; "Activating Distance Learning" organized by Center for Excellence in Learning and Teaching ksu, 1 day
2018	Attendance workshop titled "Assessment of Learning Outcomes using RUBRICS" provided by Education Evaluation Commission National Center for Academic Accreditation & Evaluation 2 day, 12 hours
2018	Attendance workshop on "partnership between the university and industry and business "opportunities and challenges" on Monday, 1439/05 / 26H corresponding to 2018/02/12; Organized by the University Agency for Graduate Studies and Scientific Research at King Saud University
2018	Attendance a workshop in "Developing Women Leaderships for Departments Vice Chairs" Which was held at King Saud University During the Period of 23/01/2018 for a total of 3 training Hours
2017	Attendance workshop on "Academic Accreditation Requirements" Wednesday, 19 February 1439 H conciliator, November 8, 2017 As part of the International Day of Quality
2017	Attendance workshop at Science Collage titled with: "Academic Counselling Concepts and Skills".
2017	Attendance of the induction meeting of faculty members at the University Translation Center and the accompanying workshop titled with " <b>How to</b> <b>Translate a Book</b> " held at King Saud University; On Tuesday, 24/4 / 1439H corresponding to 24/10/2017
2016	Attendance in workshop on "Nanotechnology and Applied Chemistry." Organized by King Saud University and Saudi Chemical Society. 1 day
2016	Participate in workshop on " <b>How to Fill Application Forms for Patents</b> ." Organized by King Abdul-Aziz City for Science and Technology (KACST). 2 days
2015	Participate in work shop on "How to Create an Electronic Course Evaluation Questionnaire?" Collage of Science; 1 day
2015	Attending Lecture in "Innovatively Functionalized Nanomaterials for Biomedical, Sensing and Composites Applications", which was organized by The Research Center of Science and Medical Studies and held at KSU during the period of 2/12/1436-15/9/2015.
2015	Participate in The First Scientific Cultural Forum for The Students of Universities and Higher Education Institutions in The Countries of The Arab Gulf Cooperation Council. KSU.5 days
2012	Participate in <b>The Chemical Safety and Security Officer (CSSO) Training</b> . Organized by chemical security engagement program, sponsored by the US Department of state. 5 days
2012	Participate in <b>The Training Program on Fundamentals of Polymer Science</b> <b>and its Industrial Applications.</b> Petrochemical Research Chair, Department of Chemistry, College of Science, King Saud University. 2 days. The program includes a visit to some of SABIC laboratories.

2012	Participate in workshop on "Electrospinning: An Effective Technique in Nanofibers Production". Petrochemical Research Chair, Department of Chemistry, College of Science, King Saud University. 3 days
	Participate in workshop in the 4 <sup>th</sup> International Chemistry Conference
2011	2011 (1432), Riyadh, Chemistry and its Role and Application in
	Development. Organize by the Saudi Chemical Society and King Saud
	University's Chemical Department. "Green Chemistry in Education". 1 day
2007	Participate in workshop 'Atelier d'Histoire et de Philosophie des sciences
2001	organise pare l'ED SMAE'; Science Mécaniques, Acoustique et Électronique de Paris, UPME; SORBONNE UNIVERSITÉS. 5 days
	Participate in workshop SPECTROSCPIES OPTIQUE APPLIQUEES AUX
2006	MOLECULES D'INTERT BIOLOGIQUE'; laboratoire de Biophysique
	Moléculaire Cellulaire et Tissulaire (BioMoCeTi) spécialisé dans les
	spectroscopies optiques, 5 days

# COURSES & WORKSHOPS OFFERED BY THE DEAN OF SKILLS DEVELOPMENT

Training	
0001	g course entitled " <b>Building and Designing Policies and</b> u <b>res"</b> consisting of 5 training hours on 16 <sup>th</sup> of September,
2024 and Act	g course entitled " <b>Deriving Program Collaborative Activities</b> ive Learning"" consisting of 5 training hours on 15 <sup>th</sup> of aber, 2024
	g course entitled " <b>Program Specification and Report"</b> ing of 5 training hours on 9 <sup>th</sup> of September, 2024
	g course entitled " <b>Strategic Planning"</b> consisting of 5 g hours on 5 <sup>th</sup> of September, 2024
2024 from the	g course entitled " <b>Deriving Program Learning Outcomes</b> <b>e National Qualifications Framework"</b> consisting of 5 g hours on 13th of May, 2024
2020 Attenda	ance in online workshop titled with;" <b>Evaluating Student</b> nance and Online Learning" KSU, 01/04/2020; 1 day
	in workshop titled with " <b>Infographics</b> ". Organized by ip of Skills Development. 1 days
2016 Manage	in workshop titled with " <b>The Basics of E-Learning</b> ement System". Organized by the Deanship of Skills oment, KSU. 3days
2016 Process	ate in training on " <b>Department Vice-Heads Roles for Learning</b> <b>5 Development</b> " Organized by the Deanship of Skills oment, KSU. 1day
	ate in training on " <b>Teaching Excellence</b> " Organized by the ip of Skills Development, KSU. 1day.
	sics of academic leadership, Organized by the Deanship of evelopment, KSU. 1day.

2014	Professional certificate courses, <b>Elaborating Tables and Registration</b> <b>Mechanisms</b> , Organized by the Deanship of Skills Development, KSU. 2 days.
2012	Professional certificate courses, <b>Safe and Comfortable Learning</b> <b>Environment.</b> Organized by the Deanship of Skills Development, KSU. 1 day.
2012	Professional certificate courses, <b>learning theories</b> , Organized by the Deanship of Skills Development, KSU. 1 day.
2012	Professional certificate courses, <b>The Use of Technology in university teaching "Black board"</b> , Organized by the Deanship of Skills Development, KSU. 3 days.
2012	Sessions of the new faculty members, <b>Micro Teaching</b> . Organized by the Deanship of Skills Development, KSU. 2 days
2012	Sessions of the new faculty members, <b>Assessing Student Learning</b> <b>Outcomes.</b> Organized by the Deanship of Skills Development, KSU. 3days.
2011	Sessions of the new faculty members, <b>Effective University Teaching</b> <b>Skills</b> . Organized by the Deanship of Skills Development, KSU. 3days.
2011	Sessions of the new faculty members, <b>Design and Construction of</b> <b>Course</b> . Organized by the Deanship of Skills Development, KSU. 2 days
2011	Participate in workshop in the 1st Annual Forum for University Teaching. Riyadh, KSU. Organized by the Deanship of Skills Development. "Improvement Students Critical Thinking Skills". 1 day
2011	Participate in workshop in <b>the 1st Annual Forum for University</b> <b>Teaching.</b> Riyadh, KSU. Organized by the Deanship of Skills Development. Using Testing, Grading and Feedback to Enhance Student Learning. 1 day

Patents	
2020	U. S. Patent 10,702,550 B1: "Synthesis of Olive Leaf Extract Silver Nanoparticles", Hassna M. Alhajri, Wedad S. Al-Qahtani, Seham S. ALTERARY, Bahauddeen M.Alrfaei. King Saud University. Jul. 7 2020
2020	U.S. Patent 10,703,641 B1.: "Synthesis of Metal Oxide Nanoparticles Using KALANCHOE BLOSSFELDIANA Extract" Ali K. Aldalbahi, Seham S. ALTERARY, Ruba A. A. Almoghim. Manal A. G. Awad, Noura S. Aldosari, Shoog F. A. Algannam, Alhanouf N. A. Alabdan, Shaden A. Alharbi, Bedoor A. Al-Ateeg, Atheer A. Al-Mohssen, Munirah A.A. Alkathri, Raghad A. Alrashed. King Saud University. Jul. 7 2020

## PUBLICATIONS

1-	ANTOUN Tarek; BRAYNER Roberta; ALTERARY Seham; FIEVET Fernand; CHEHIMI Mohamed; YASSAR Abderrahim; "Facile synthesis of oligothiophene- capped CdS nanoparticles", European journal of inorganic chemistry, Vol. 2007, No 9, pp. 1275-1284, 2007.
2-	Al Terary, S.; Mangeney, C.; Brayner, R.; Antoun, T.; Fiévet, F.; Yassar, A." <b>Biotin-Bioconjugated Water-Soluble CdS Nanoparticles</b> ", Sensor Letters, American Scientific Publishers, Vol. 6, N <sup>o</sup> 4, , pp. 511-517, August 2008
3-	AL-TERARY Seham; BASAIF Salim; EL-AWADY Abbas A.," Solvent effects on ester linkage of 4-nitrophenyl acetate in aqueous and ethanol solutions with imidazole and hydroxide ion as nucleophiles ", Indian journal of chemistry- Section A Inorganic, Physical, Theoretical and Analytical Chemistry, Vol. 47, No10, pp. 1491-1496,2008
4-	Yahia Nasser Mabkhot, Nahed Ahmed Kaal, Seham Alterary, Salim S. Al- Showiman, Assem Barakat, Hazem A. Ghabbour, and Wolfgang Frey. "Synthesis, In-Vitro Antibacterial, Antifungal, and Molecular Modeling of Potent Anti-Microbial Agents with a Combined Pyrazole and Thiophene Pharmacophore" Molecules 20, 8712-8729, 2015
5-	Zeinab A. Muhammad, Mastoura M. Edrees, Rasha A. M. Faty, Sobhi M. Gomha, Seham S. Alterary and Yahia N. Mabkhot. "Synthesis, Antitumor Evaluation and Molecular Docking of New Morpholine Based Heterocycles". Molecules, 2017, 22, 1211.
6	Yahia Nasser Mabkhot, Nahed Ahmed Kaal, Seham Alterary, Salem S. Al-Showiman, Thoraya A. Farghaly and Mohammad S. Mubarak. " Antimicrobial activity of thiophene derivatives derived from ethyl (E)-5-(3-(dimethylamino) acryloyl)-4-methyl-2-(phenylamino) thiophene-3-carboxylate". Chemistry Central Journal, 2017, 11,75
7	Magda A. Abdallah 1, Sobhi M. Gomha, Ikhlass M. Abbas, Mariam S. H. Kazem, Seham S. Alterary and Yahia N. Mabkhot. "An Efficient Synthesis of Novel Pyrazole- Based Heterocycles as Potential Antitumor Agents". Appl. Sci. 2017, 7, 785
8	Sobhi M. Gomha1, Mohamad R. Abdelaziz, Nabila A. Kheder, Hassan M. Abdel-aziz, Seham Alterary and Yahia N. Mabkhot." A facile access and evaluation of some novel thiazole and 1,3,4-thiadiazole derivatives incorporating thiazole moiety as potent anticancer agents" Chemistry Central Journal 2017 11:105
9	Khalid Karrouchi, Smaail Radi, El bekkaye Yousfi, Nada Kheira Sebbar, Jamal Taoufik, Younes Ouzidan, Hazem A. Ghabbour, Yahia N. Mabkhot, Salim S. Al-Showiman, Seham Alterary, M'hammed Ansar. "Synthesis, X-ray Crystal Structures, Computational Studies and Catechol Oxidase Activity of New Acylhydrazone Derivatives". Preprints 2018.
10	Khalid Karrouchi, Saad Fettach, Smaail Radi, El bekkaye Yousfi, Jamal Taoufik, Yahia N. Mabkhot, Seham Alterary, My El Abbes Faouzi and M'hammed Ansar. "Synthesis, Characterization, Free-radical Scavenging Capacity and Antioxidant Activity of Novel Series of Hydrazone, 1,3,4-oxadiazole and 1,2,4triazole Derived from 3,5-dimethyl-1H-pyrazole" BENTHAM SCIENCE; Volume 16, Issue 7, 2019
11	Yahia Nasser Mabkot, Nahed Ahmed Kaal, Seham Alterary, Mohammad S. Mubarak, Abdulrhman Alsayari, and Abdullatif Bin Muhsinah "New Thiophene Derivatives as Antimicrobial Agents". Journal of Heterocyclic Chemistry; 2019. Vol. 65; Issue 10 P. 2845-2953

12	Khalid Karrouchi1, Saad Fettach, Smaail Radi, El bekkaye Yousfi, Jamal Taoufik1, Yahia N. Mabkhot, Seham Alterary, My El Abbes Faouzi and M'hammed Ansar. <b>"Synthesis, Characterization, Free-radical Scavenging Capacity and Antioxidant</b> <b>Activity of Novel Series of Hydrazone, 1,3,4-oxadiazole and 1,2,4triazole Derived</b> <b>from 3,5-dimethyl-1H-pyrazole</b> " Letters in Drug Design & Discovery. 2019; Volume 16, Issue 7, p.9.
13	Taibi Ben Hadda1, Abdur Rauf, Hsaine Zgou, Fatma Sezer Senol, Ilkay Erdogan Orhan, Yahia Nasser Mabkhot, Ismail I. Althagafi, Thoraya A. Farghalyand Seham Alterary. " <b>Drug Design of Inhibitors of Alzheimer's Disease (AD): POM and DFT</b> <b>Analyses of Cholinesterase Inhibitory Activity of β-amino di-Carbonyl Derivatives</b> " Mini Reviews in Medical Chemistry. 2019; Volume 19, Issue 8; P. 688-705
14	Nawal Madkhali1, Hadi. R Alqahtani, Seham Al-Terary, Amel Laref, Adel Hassib. <b>"Control of optical absorption and fluorescence spectroscopies of natural</b> <b>melanin at different solution concentrations</b> ". Optical and Quantum Electronics.2019; 51:227
15	Nawal Madkhali, Adel Hassib1, Hadi R. Alqahtani1, Hamad Al-Britain, Seham Alterary, and Amel Laref. "Systematic Investigation of the Electrochemical Properties of Natural Melanin for Various Electrode Cells" Journal of Biobased Materials and Bioenergy. 2019; Vol. 13, 429–437,
16	N.Madkhali, H.R.Alqahtani, Seham Al-Terary, A.Laref, A.Haseeb. "The doping effect of Fe, Cu and Zn ions on the structural and electrochemical properties and the thermostability of natural melanin extracted from Nigella sativa L" Journal of molecular Liquids. 2019; vol. 285, P. 436-443
17	Nawal Madkhali, Hadi R. Alqahtani, Seham Alterary, Hamad A.Albrithen, Amel Laref, Adel Hassib . "Characterization and electrochemical deposition of natural melanin thin films". Arabian Journal of Chemistry. 2020; Vol. 13, Issue 4, P. 4987-4993
18	Ali Aldalbahi, <b>Seham Alterary</b> , Ruba Ali Abdullrahman Almoghim , Manal A. Awad , , Noura S. Aldosari , Shouq Fahad Alghannam, Alhanouf Nasser Alabdan , Shaden Alharbi , Budur Ali Mohammed Alateeq , Atheer Abdulrahman Al Mohsen , Munirah A. Alkathiri and Raghad Abdulrahman Alrashed . "Greener Synthesis of <b>Zinc Oxide Nanoparticles: Characterization and Multifaceted Applications</b> ". Molecules 2020, 25, 4198
19	Seham Alterary, and Narguess H. Marei "The Impact of Coal Fly Ash Purification on Its Antibacterial Activity". Minerals 2020, 10, 1002
20	F. Barakat, Mohamad.S. AlSalhi, S. Prasad, S. Alterary, S. Faraji, A. Laref. "Synthesis of nanocomposite films based on conjugated oligomer-2D layered MoS2 as potential candidate for optoelectronic devices". Journal of King Saud University - Science 33 (2021) 101389
21	S. Alterary, H.R.AlQahtani, A.Laref. "Experimental and theoretical investigations of the structural, magnetic and electronic characteristics of copper ferrite nanostructures as potential spin-filtering candidates". Journal of Mganetism and Magnetic Materials. <u>Volume 534</u> , 15 September 2021, 168009
22	Seham S. Alterary and Anfal Al-Khamees "Synthesis, surface modification, and characterization of Fe3O4@SiO2 core@shell nanostructure " Green Processing and Synthesis 2021; 10: 384–391

23	F. Barakat, A. Laref, S. Alterary, S. Faraji, M. Alsalhi "Structural and optical behaviors of 2D-layered molybdenum disulfide thin film: experimental and ab- initio insights".Journal of Materials Research and Technology (2021); 14: 780- 789
24	Seham S. Alterary, Narguess H. Marei." Fly ash properties, characterization, and applications: A review". Journal of King Saud University - Science 33 (2021); 101536
25	Hassna Alhajri, <b>Seham Alterary</b> , Bahauddeen M. Alrfaei, and Wedad S. Al-Qahtani. <b>Therapeutic potential evaluation of green synthesized silver nanoparticles derived</b> <b>from olive (Olea europaea L.) leaf extracts against breast cancer cells</b> . Journal of Nanophotonics. 2021; Vol. 15(3)
26	Ibrahim A. AlShunaifi, Samira Elaissi, Imed Ghiloufi, Seham S. Alterary and Ahmed A. Alharbi. <b>Modelling of a Non-Transferred Plasma Torch Used for Nano-</b> <b>Silica Powders Production.</b> <i>Applied Sciences</i> 2021, 11(21),9842
27	Shimaa Kamal, Hamed Ahmed Derbala, Seham Soliman Alterary, Abir Ben Bacha, Mona Alonazi, Mohamed Kandeel El-Ashrey, and Nahed Nasser Eid El-Sayed Synthesis, Biological, and Molecular Docking Studies on 4,5,6,7- Tetrahydrobenzo[b]thiophene Derivatives and Their Nanoparticles Targeting Colorectal Cancer. ACS Omega 2021 6 (43), 28992-29008
28	Rais Ahmad Khan, Ibtisam I. BinSharfan, <b>Seham S. Alterary</b> , Huda Alsaeedi, Faizan Abul Qais, Amal AlFawaz, Arman D. Hadi, Ali Alsalme. <b>Organometallic (n6 -p- cymene)ruthenium(II) complexes with thiazolyl-based organic twigs: En route towards targeted delivery via human serum albumin of the potential anticancer agents. <i>WIELY-</i> <i>Appl. Organomet Chem</i>. 2021; e6550</b>
29	Rais Ahmad Khan, Seham S. Alterary, , Ibtisam I. BinSharfan , Huda Alsaeedi , Amal AlFawaz , Mohd. Shahnawaz Khan , Mohammad H Jaafar, Yanshu Shi c , Hadi D. Arman , Ali Alsalme. Piano-stool type (n6 -p-cymene)ruthenium(II) thiazole-derived motifs complexes: Synthesis, crystal structures, DFT studies, molecular docking and in-vitro binding studies with HSA and cytotoxicity. Inorganica Chimica Acta. <u>Volume 537</u> , 1 July 2022, 120925
30	Seham S. Alterary <sup>1,*,</sup> Raya M. Alyabes <sup>1</sup> , Ahmed A. Alshahrani <sup>2,*</sup> and Monirah A. Al- Alshaikh <sup>1</sup> ."Unfunctionalized and Functionalized Multiwalled Carbon Nanotubes/Polyamide Nanocomposites as Selective-Layer Polysulfone Membranes". Polymers 2022, 14, 1544. Published: 11 April 2022
31	Seham S. Alterary <sup>1*</sup> and Maha F. El-Tohamy. "Advanced Functionalized CeO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> Nanocomposite Sensor for Determination of Opioid Medication Tramadol Hydrochloride in Pharmaceutical Formulations". <i>Nanomaterials</i> 2022, 12, 1373. Published: 16 April 2022
32	Jihan F. Al Mutairi, Fatimah Al-Otibi, Hassna M. Alhajri, Raedah I. Alharbi, Saud Alarifi 3 and <b>Seham S. Alterary</b> . "Antimicrobial Activity of Green Silver Nanoparticles Synthesized by Different Extracts from the Leaves of Saudi Palm Tree (Phoenix Dactylifera L.) ." <i>Molecules</i> . 27, 3113, Published 12-05-2022.

33	Seham S. Alterary and Narguess H. Marei "New Isolated Shrimp (Litopenaeus setiferus) Chitosan-Based Films Loaded with Fly ash for Antibacterial Evaluation". <i>Polymers</i> May 2022
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35	M Amina, NM Al Musayeib, Seham Alterary, MF El-Tohamy, Samira A. Alhwaiti "Advanced polymeric metal/metal oxide bionanocomposite using seaweed Laurencia dendroidea extract for antiprotozoal, anticancer, and photocatalytic applications". PeerJ 11(2):e15004 M Amina, NM Al Musayeib, Seham Alterary, MF El-Tohamy, Samira A. Alhwaiti DOI; 10.7717/peerj.15004
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38	Manal Qayyadh Alanazi, Promy Virk, <b>Seham Soliman Alterary</b> , Manal Awad, Zubair Ahmad, Abdulrehman M. Albadri, KalidM. Ortashi, Mohieldeen Mahgoub A. Ahmed, Mohamed Ismail Ali Yousef, Mai Elobeid, Ebtesam Abdullah Al-Qahtani. "Effect of potential microplastics in sewage effluent on Nile Tilapia and photocatalytic remediation with zinc oxide nanoparticles". Environmental Pollution 332 (2023) 121946
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40	Seham S. Alterary · Gamal A.E. Mostafa · Haitham Alrabiah · Monirah A. Al-Alshaikh · Maha F. El-Tohamy "Charge Transfer Copper Chelating Complex and Biogenically Synthesized Copper Oxide Nanoparticles Using Salvia officinalis Laves Extract in Comparative Spectrofluorimetric Estimation of Anticancer Dabrafenib". Journal of Fluorescence-Springer Nature. August 23, 2023 https://doi.org/10.1007/s10895-023-03388-9
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42	Seham S. Alterary "Functionalized gum acacia–activated carbon-CaO/NiO nanocomposite for potential photocatalytic removal of organic pollutants from water" Environmental Science and Pollution Research. https://doi.org/10.1007/s11356-023-30328-8
43	Muneerah Alomar, Badriah S. Almutairi, <b>Seham S. Alterary</b> , Manal A. Awad , Fida Hussain ,Awatif A. Hendi 1, Maha F. El-Tohamy and N. Al-Hoshani <b>"Self-Regenerating</b> <b>Solar Evaporation System for Simultaneous Salt Collection and Freshwater from</b> <b>Seawater"</b> Water <b>2023</b> , 15, 3697. <u>https://doi.org/10.3390/w15203697</u>

44	Muneerah Alomar, <b>Seham Alterary</b> , Manal Awad, Iftikhar Ahmed, Almas Danish, Muhammad Sultan Irshad, Bui Thi My Duyen, Tran Nam Anh, Van-Duong Dao, <b>Morphological regulation of CdS/Ga</b> <sub>0.04</sub> Cd <sub>0.96</sub> s <b>nanocomposites for enhanced</b> <b>efficiency of solar-driven rhodamine B degradation.</b> Published 12 January 2024, Journal of Alloys and Compounds 980 (2024) 173506. <u>https://doi.org/10.1021/acsomega.3c07517</u>
45	Seham S. Alterary, Monirah A. Al-Alshaikh, Athar M. Elhadi, Wenjie Cao. Design, Synthesis and Evaluation of Novel Magnetic Nanoparticles Combined with Thiophene Derivatives for Removal of Cr(VI) from Aqueous Solution. Published 6 Feb. 2024, ACS Omega 2024, 9, 7, 7835–7849. https://doi.org/10.1021/acsomega.3c07517
46	Seham S. Alterary <sup>a</sup> , Gamal A.E. Mostafa <sup>b</sup> ,* Maha F. El-Tohamy <sup>a</sup> , and Haitham AlRabiah <sup>b</sup> Novel enhancement spectrofluorimetric determination of anti-breast cancer drugs Palbociclib using biogenic synthesized alumina/NiO nanocomposite. Published 11 March 2024. ChemistrySelect, 2024, 9(10) e202304586 https://doi.org/10.1002/slct.202304586
47	Seham S. Alterary. <sup>[a]</sup> Gamal A. E. Mostafa, <sup>*[b]</sup> Maha F. El-Tohamy, <sup>[a]</sup> Athar M. Elhadi, <sup>[a]</sup> and Haitham AlRabiah <sup>[b]</sup> , A Novel Potentiometric Coated Wire Sensor Based on Functionalized Polymeric CaO/ZnO Nanocomposite Synthesized by Lavandula Spica Mediated Extract for Terbinafine Determination. Published 06 May 2024. ChemistrySelect. 2024, 9 (8) e202401217 https://doi.org/10.1002/slct.202401217
48	Seham S. Alterary, Potent and Versatile Biogenically Synthesized Alumina/Nickel Oxide Nanocomposite Adsorbent for Defluoridation of Drinking Water. Published online 23 May 2024, ACS Omega <u>https://doi.org/10.1021/acsomega.3c09076</u>
49	Sustainable Approaches for the Fabrication of Nanocellulose-Polyamide Membrane Based on Waste Date Palm Leaves for Water Treatment Seham S. Alterary <sup>1</sup> , <sup>a*</sup> , Ahmed A. Alshahrani <sup>2,b</sup> , Athar Elhadi <sup>1,c</sup> , Maha F. El-Tohamy <sup>1,d</sup> . <i>Key Engineering Materials.</i> 1662-9795, Vol. 985, pp 53-74 doi:10.4028/p-U5s41d
50	Khawla Alhamzani, Hany El-Hamshary, <b>Seham Alterary</b> , Badr M. Thamer, Meera Moydeen Abdulhameed, Mohamed El-Newehy. "Synthesis of pyridine-quaternized chloroethyl vinyl ether copolymers as adsorbents for Eosin dye removal from wastewater" Journal of Molecular Structure 1319 (2025) 139468, July <b>2024</b> <u>https://doi.org/10.1016/j.molstruc.2024.139468</u>
51	<b>Seham S. Alterary</b> <sup>1,2,*,</sup> Ali Aldalbahi <sup>1</sup> , Raneem Aldawish <sup>1</sup> , Manal A. Awad <sup>2,*</sup> , Hind Ali Alshehri <sup>3</sup> , Zainah Ali Alqahtani <sup>4</sup> , Reem Hamad Alshathri <sup>5</sup> , Noura S. Aldosari <sup>3</sup> , Leen Abdullah Aldwihi <sup>5</sup> , Shorouq Mohsen Alsaggaf <sup>3</sup> , Khulood Ibrahim Bin Shuqiran <sup>5</sup> , Raghad B. Alammari <sup>5</sup> , Bushra Ibrahim Alabdullah <sup>6</sup> , Hissah Abdullah Aljaser <sup>3</sup> and Shaykha Alzahly. <i>"Fabrication of Multifunctional Green-Synthesized Copper Oxide Nanoparticles Using Rumex vesicarius L. Leaves for Enhanced Photocatalytic and Biomedical Applications"</i> Catalysts 2024, 14, 800. <u>https://doi.org/10.3390/catal14110800</u>
52	Waad A. Alghamdi <sup>a</sup> , <b>SehamS. Alterary</b> <sup>a</sup> , Abdullah Alarifi <sup>a</sup> , Ramith Ramu <sup>b</sup> , Mohd Shahnawaz Khan <sup>c</sup> , Mohd Afzal <sup>a</sup> . "Exploring the interaction of curcumin with 6- cyclodextrin and its binding with DNA: A combined spectroscopic and molecular docking study". International Journal of Biological Macromolecules, <u>Volume 282</u> , <u>Part 5</u> , December 2024, 137238

Seham S. Alterary, Maha F. El-Tohamy, Eman A. Alshaya, Abeer A. Bin-Rasheed. "Enhancing cadmium ion removal from contaminated water using functionalized fly ashalumina/copper oxide nanocomposites" Journal of Water Process Engineering, <u>Volume</u> <u>69</u>, January 2025, 106648

https://doi.org/10.1016/j.jwpe.2024.106648

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Supervising Undergraduate and graduate Students	
1-	A Mild and Accessible Synthesis of Alanine methyl ester, 1st sem, 2011
2-	A Mild and Accessible Synthesis of Glycine methyl ester, 1st sem, 2011
3-	A Mild and Accessible Synthesis of phenylalanine methyl ester, 1st sem, 2011
4-	The application of green chemistry techniques in the construction of N- acetanilide derivatives, 1st sem, 2012
5-	Synthesis of 1-Benzyl-4-phenyl-1H-1,2,3-triazole Using Click Chemistry Techniques, 1st sem, 2013
6-	Synthesis of a Tri-Substituted Imidazole Using Ionic Liquids as Green Chemistry Techniques, 1st sem, 2014
7-	Synthesis of Zinc ferrites nanoparticles to use it as Catalyst in Organic Reactions, 2nd sem, 2015
8-	Synthesis and use Copper Ferrites Nanoparticles as Catalyst in Reduction Reaction, 1st sem, 2015
9-	Synthesis and Characterization of Two types of Magnetic Nanocatalysts for Organic Reactions, 1st sem, 2016. The graduation project has honored the first awards.
10-	Synthesis and Characterization of Magnetic Nano-catalysts with Different Silica Shell Thickness, 1st Sem 2017.
11-	Synthesis and Comparative Catalytic Behavior of Metal Oxide nanoparticles ZnONPs and MgONPs :An Insite of Glycerol Carbonate Production. 2 <sup>nd</sup> Sem 2022
12-	Comparative Characterization of Activated Carbon Obtained from Two Different Types of Coffee Spent. 2 <sup>nd</sup> semester 1445-2024
	*The student achieved first place in the graduation research and presentation, and second place in the scientific poster

# Supervising Graduate Students

Graduation Year	Thesis Title
2024	2 <sup>nd</sup> Co-supervisor of Master Student: Khaulah Al-Hamazani Synthesis of Some Copolymers Based on Chloroethyl vinyl ether and Their Modifications with Some amines for Water Treatment; 2021
2024	Main supervisor of Master Student: Waad Abdulrhman Ali Alghamdi Etitlied:" Spectroscopic Methods for the Measurements of Interactions Between Some Natural Therapeutic Agents with Biomolecules"
2022	Co -supervisor of Master Student: Manal Alonizi (zoology Dep.) "Effect of Microplastics in Wastewater Effluents Nile Tilapia and Potential Remediation with Zinc Oxide Nanoparticles" ;2021
2022	Master student Raya Alyabes," Synthesis, Characterization and Evaluation of Polyamide as Reverse Osmosis (RO) Membrane" main supervisor
2022	Master student, "Synthesis, Surface Modification and Functionalization of Metal Oxide Nanoparticles by Organic Ligands for Water Treatment Application."; co-supervisor. Student Name: Athar AlHadi
2020	Master student, "Synthesis of New Organometallic compounds for Biological application."; main-supervisor. Student Name: Ibtisam Bin Sharfan
2020	Master student, "Chemical constituents and biological activity of the olive leaves grown in Saudi Arabia"; main-supervisor. Student Name: Nora Al Habib
2014	Master student, "Synthesis of Novel Heterocyclic Compounds Containing Sulphur"; co-supervisor. Student Name:"Nahed Kaal"

## Member of Graduate Studies thesis Jury committees

2014	Mater Student Lamia Al-Lehaib "Chemical Constituents of Some Tamaricaceae Plants"
2014	Master Student Nhed Kaal "Synthesis of Novel Heterocyclic Compounds Containing Sulphur"
2015	Master Student "Nawal AL-Balawi "Synthesis of Novel 2- aminothiazole derivatives anticipated biological activities"
2018	Master student Lina Alqahtani "Synthesis docking and biological evaluation of certain class of Nonsteroidal anti-inflammatory drugs"
2020	Master student <i>Norah Alhabib</i> "Chemical constituents and biological activity of the olive leaves grown in Saudi Arabia

2020	Master Student Shatha lahmadi "Synthesis of Silica nanoparticles for drug delivery"
2020	Master student <b>Taghreed Alotaibi</b> "Synthesis of some Novel Nitrogen and Oxygen Containing Hetero Cyclic Compounds with Evaluation of their Biological Activity"
2022	Master student: <i>Athar AlHadi</i> "Synthesis, Surface Modification and Functionalization of Metal Oxide Nanoparticles by Organic Ligands for Water Treatment Application.";
2022	Master student <i>Raya Alyabes</i> ," Synthesis, Characterization and Evaluation of Polyamide as Reverse Osmosis (RO) Membrane"
2023	Master student <b>Refaah Al-Jassas,</b> Thesis Title: (Synthesis, Characterization, and Biological Evaluation of Some Spiro Compounds Containing Pyrazole Moiety). <b>The defense was held</b> <b>on</b> 04/06/2023
2023	Master student Manal AlJohani; Thesis title:(Polyvinyl Alcohol Modification for Adsorption of Water Contaminants). The defense was held on 18/06/2023
2023	Master student; <b>Sarah Alotaibi</b> ; Thesis title:(Detection of Acrylamide Using Liquid Chromatography-Tandem Mass Spectrometry and Quantitative Risk Assessment in Selected Food from Saudi. <b>The defense was held on</b> 21/06/2023

Department & Faculty Committees	
2024	Member of Postgraduate Program Development Committee
2023	Member of the Supervisory Committee of the Graduate Unit at the College of Science
2017-2021	Member of Higher Committee for Chemistry Program
2011-2019	Member of Evaluation and Academic Accreditation Committee, in chemistry department, Faculty of science.
2011-2015	Member of Development and Quality Committee, in chemistry department, Faculty of science.
2018-till now	Member of Study Plan Committee, in chemistry department, Faculty of science.
2017-till now	Member of Student Guidance Committee, in chemistry department, Faculty of science.
2017-till now	Member of Alumni and Human Resources Committee, in chemistry department, Faculty of science.
2017-till now	Member of Interdisciplinary Academic Programs Committee, in Faculty of science.

# Professional affiliations

Member of Saudi Chemical Society (SCS)
Member of Royal Society of Chemistry (RSC)
Member of American Chemical Society (ACS)

# Community Action Service

2024	Supervising research for students affiliated with the Mawhiba Program,
	ongoing work.
2024	Participation as a judge member in the scientific posters for Graduation
2024	research for bachelor's students College of Pharmacy at the 13th Research
	Day of College of Pharmacy, which took place on May 23, 2024
2023	Presentation of a lecture for male and female students titled "The Skills Record A
2025	Window of Self-Marketing in the Labor Market" held on Wednesday, Jumada al-
	Akhirah 24, 1444 AH, corresponding to November 8, 2023.
0000	Presenting a lecture to male and female students entitled "Skills Record: Its
2023	Importance and Role in Providing Competitive Opportunities in the Labor Market", which was held on Thursday, Jumada al-Akhirah 26, 1444 AH, corresponding to
	January 19, 2023.
	Member of the committee responsible for developing a specialized program known
2023	as " <b>Applied Chemistry</b> " within the Department of Chemistry at the College of Science,
	King Saud University
2022 till	
	Member of Graduate Unit, College of Science, King Saud University
now	
2022	Member of The Strategic Plan Review Committee for the College of Science
	Participate as volunteer judge for under graduate student posters for the 11 <sup>th</sup>
2022	College of Pharmacy Research Day (COPRD11), attendance physically at Hamad Al-
	Jasser Hall, Male Students Campus, King Saud University on May 18, 2022
0004	Participate as volunteer judge for under graduate student posters for the 10 <sup>th</sup>
2021	College of Pharmacy Research Day (COPRD10) virtually on March 25, 2021
2020	Participate as Lecture presenter at workshop titled with "SciFinder; The
2020	source & guide for chemist and non-chemist" organized by Training and
	Community Service Unit at college of Science; 03/03/2020
	Participate at workshop of The Role of Scientific Chairs in Research and
2019	Development as lecture presenter about "Introducing King Abdullah Institute
2019	for Nanotechnology as one of the supporting Institutions for scientific
	research and development". Organized by the chemistry council Sponsored
	by the Saudi chemical association; 12/11/2019
2019	Participate as Lecture presenter Titled with "Nanotechnology: Benefits and
2019	<b>Risks</b> " organized by the student club CHEMISTRY is MY LIFE On the occasion
	of The Arab Week of Chemistry; 22/10/2019
2019	Participate at the student's summer program training organized by
	nanotechnology unit at Female Campus at KSU Affiliated with King Abdullah

	Institute for Nanotechnology as Lecture presenter Titled with "Green Nanotechnology Principles and Goals"; 22/07/2019
2019	Participate at the student's summer program training organized by nanotechnology unit at Female Campus at KSU Affiliated with King Abdullah Institute for Nanotechnology as Lecture presenter Titled with "Introduction to Nanotechnology Concept and Its Applications"; 15/07/2019
2019	Participate as Lecture presenter Titled with "The 6 <sup>th</sup> workshop of Faculty of Science for the interdisciplinary program Natural Products Challenges", Reality and Hope; held at Crowne Plaza Hotel Riyadh; 10/02/2019
2019	Participate as Lecture presenter Titled with "Chemistry is The Comprehensive and Renewable Science"; at the workshop (we met to improve ourselves by Chemistry) organized by the chemistry council; Sponsored by the Saudi chemical association; 22/01/2019
2018	Participate as Lecture presenter Titled with "Employment fields for female graduates of the Chemistry program & Introducing the Collaborative Researcher Program" organized by the student club CHEMISTRY is MY LIFE. 21/12/2018
2018	Participate in Scientific Training Series for Nanotechnology in workshop titled with: <b>Magnetic Nanoparticles: the importance and wide applications</b> .
2018	Participate in First Meeting of Dean's Faculties in Saudi Universities during the 1st session titled with; "Contributions of Sciences Colleges and Vision 2030". 04-05/02/2018.
2017	Trainer for technicians of Departments of Science and Medical Studies in a program titled with ( <b>Proper Methods for Conserving and Storing Chemicals in Lab and Storage Rooms</b> ) This was organized under the supervision of the Deanship of skills development programs. The workshop was held at the Deanship of skills development building at Female Campus at King Saud University. For two consecutive days Tuesday and Wednesday 24-25 / 03/1439 equal with 12-13 / 12/2017.
2017	Trainer for technicians of Departments of Science and Medical Studies in a program titled with ( <b>Proper Methods for Conserving and Storing Chemicals in Lab and Storage Rooms</b> ) This was organized under the supervision of the Deanship of skills development programs. The workshop was held at the Deanship of skills development building at Female Campus at King Saud University. For two consecutive days Tuesday and Wednesday 17-18 / 03/1439 equal with 05-06 / 12/2017.
2017	Trainer for technicians of Departments of Science and Medical Studies in a program titled with (Proper Methods for Conserving and Storing Chemicals in Lab and Storage Rooms) This was organized under the supervision of the Deanship of skills development programs. The workshop was held at the Deanship of skills development building at Female Campus at King Saud University. For two consecutive days Tuesday and Wednesday 25-26 / 02/1439 equal with 14-15 / 11/2017.
2017	Trainer for technicians of Departments of Science and Medical Studies in a program titled with ( <b>Proper Methods for Conserving and Storing Chemicals in Lab and Storage Rooms</b> ) This was organized under the supervision of the Deanship of skills development programs. The workshop was held at the Deanship of skills development building at Female Campus at King Saud University. For two consecutive days Tuesday and Wednesday 6-7 / 8/1438 equal with 2-3 / 5/2017.

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2017	Trainer for technicians of Departments of Science and Medical Studies in a program titled with ( <b>How to Deal Safely with Chemical Spills in the Lab</b> ) This was organized under the supervision of the Deanship of skills development programs. The workshop was held at the Faculty of Sciences building at Female Campus at King Saud University. For one day; Tuesday 28 / 7/1438 equal with 25 / 4/2017.
2016	Establish a training program for technicians includes several topics: (Chemical Compatibility - Optimal Storage of Chemicals in Laboratories - Transfer Explosive Chemicals - To Get Rid of Chemicals – Chemical Labels – Material Safety Data Sheet) and its associated practical training. This was organized under the supervision of the Deanship of skills development programs. The workshop was held at the Faculty of Sciences building at Female Campus at King Saud University. For two consecutive days Tuesday and Wednesday 26-27 / 7/1437 equal with 3-4 / 5/2016
2015	Participation in the training of health colleges technicians within the workshop safety work in scientific laboratories Program of the Deanship of Skills Development. Managed workshop entitled "Management of Chemicals in The Laboratory: Best Practices for Dealing with Chemicals." And practical application belongs to "good storage procedures." Which was held at King Saud University on Tuesday, 08/15/1436 corresponding to 06/02/2015.
2015	Give a workshop to laboratory technicians health colleges "The management of chemicals in the laboratories: Best practices for dealing with chemicals" followed by "Practical application: good storage procedures", Organized by the Deanship of Skills Development, KSU. 1day.

### **Qualitative initiatives** 2017 Establishing solvent recycling unite Creating a cooperative student program for low performance students; 2017 called (Learning together) "Courses Semester Events" in each semester a group of students from different course have separate corner in the college hall showing 2017 examples materials on How to apply fundamental understanding from scientific information from courses in life areas. "The chemistry consultant" participation idea submitted to Nationwide 2018 Service at KSU 2018 Suggestion of establishing a master program on "Cosmetic chemistry" (The first forum to Compatibility the learning outcomes of the chemistry 2019 program (female students) and the labor market). The First Festival for The Short Scientific Film of the College of Science 2019 Suggestion of establishing Saudi Association for Sustainability of 2021 **Resources** (Chemistry)

### Other



Participation as a member of Science Group 20, a group representing civil society, in order to develop recommendations that are presented to G20 leaders for consideration.

I was honored to work within **the S20 Science Group**, which formed a steering committee composed of the most prominent Saudi research universities in addition to the King Abdulaziz City for Science and Technology, as the committee contributed to the initial discussions to define the topic of this year's science group and also hosted a series of specialized seminars on the topics of the vital group. Furthermore, the S20 science group formed four working groups, and it was an absolute pleasure and great honour to participate among 180 scientists from different G20 countries. The type of meetings varied between virtual meetings, discussions and preparing reports focusing on four vital areas: future health, the circular economy, the digital revolution and Foresight: Connecting the dots.



2022

2020

Participate in the experts' jury for the candidates for King Faisal Prize in Chemistry for the year 2023

I was honoured to participate as a member of the jury of experts for the candidates for the King Faisal Prize for Science in the field of (Chemistry) for the year 2023, which is an award that aims to enrich human thought and contribute to the progress of humanity in five areas, where specialized committees review their work, strictly following international standards in the process of selecting the winners, It is worth noting that a large number of King Faisal Prize winners later received other prestigious awards such as the Nobel Prize.