Curriculum Vitae

Personal information :

Name: Dr. Hamdah Saleh Alanazi

Position: Associated Professor

Tele: 0118055652

Mailbox 22452 - Riyadh 11495

Email: hsenzi@ksu.edu.sa

Educational Qualifications:

Ph.D. Degree, King Saud University, College of Science, Inorganic Chemistry, Metal Oxides and their Applications (11/07/2009)
Theses Titled " Contrivance of A new Synthetic Method of Transition Metal Oxides and Investigations of their Properties" under supervisor Prof . Mutasim I. Khalil

Master's Degree - King Saud University - College of Science - inorganic Chemistry-organometallic chemistry (2001)
Theses Titled " SYNTHESIS AND CHARACTERIZATION OF SOME ALKYNYL COININGE METAL COMPLEXES " under supervisor Prof. Omar M. Abu-Salah

Bachelor's Degree - King Saud University - College of Science – 1995 (with excellent honors)

Academic qualifications

Associate Professor: Department of chemistry- king Saud University (2023- until now)

Assistant Professor: Department of Chemistry - King Saud University (2009 - 2022)

Lecturer: Department of Chemistry - King Saud University-(2006-2009)

Teaching Assistant: Department of Chemistry - King Saud University (1998-2006)

Management positions (administrative leadership):

- Director Assistant of KSU Outstanding and Talented Students Program 2015-until May 2022 .
- 2012-2015 Head of the Quality Unit in College of Science
- Co- Assistant Supervisor of Teaching Assistants and Lecturers Support Unit in the Scientific Departments 2010 - 2012

Practical and administrative experience and scientific activities

Membership of committees, associations and administrative work

Member of Saudi Chemical Society

Member of Some committees at the college level (Final Examinations Committee - Registration, Guidance, since 1998 -

Member of Several internal committees in the department (Library and Computer Committee, Teaching Load Distribution Committee, Monitoring Committee, etc.). Since 1998

Member of Committee for the Annual Report of the Chemistry department 2008-2009-2010 at College Level

Member of Steering Committee for Quality Representation of the Chemistry department Programme 1429-1431

Member of Academic Accreditation Committee of the Chemistry Section Programme from 1429-1439

Coordinator for female section for Scientific Research and Postgraduate Studies Commission (one of the quality committees) 1430-1431

Member of Project for the Development of occupational Training at the College and University Levels 2013- 2014

Member of ISO 9001-2008 team for College of sciences 2015 at the College level .

Coordinator of inorganic specialist at chemistry department in 1437H

Member of Training and Community Service Unit at College of sciences from 2016 for two years .

Member of Commission for the Study of the Value Added of Infrastructure to the University City of Female Students - Institutional Renewal Committees 2016 at University Level for Dean of Development and Quality.

Member of Support team for the Provision of Information, Statistics and Documentation for the Institutional Academic Renewal Project 2016 at University Level for Dean of Development and Quality.

Member of Alumni Unit in the College of Science for the year 2018-2019 at the College level

Coordinator of the Chemistry Program for Quality and Academic Accreditation form 2nd semester 2010-2012 at the College level

Supervisor of the Outstanding and Talented Students Club from 2018-2022 - Dean of Student Affairs

Coordinator of the Chemistry Initiative brings together alumni from the Chemistry Department since 2018.

Outstanding and Talented student Advisor A guide for the Outstanding and Talented Students Program for student Seetah Al-Harbi from the Department of Chemistry- KSU Outstanding and Talented Students.

Academic mentor for 10 students from 1438 to 1443(this year 4 students)

Member of Human Resources and Alumni Committee,Chemistry Department, 2018-untile now

Member of Public Relations and Community Partnership Committee, Chemistry Department, 2018-untile now

Inorganic Chemistry Specialization Coordinator - Chemistry Department, female section 2023 -untile now .

Member of the Course Equivalency Committee - Chemistry Department, female section 2023 - untile now.

Teaching experience :

Many practical courses in the chemistry department of King Saud University.
Like practical courses 101 chem-249 chem -108 chem-251 chem-259 chem-428 chem , etc.

Theoretical courses currently taught or taught previously 101 chem -324 chem -107 chem-421 chem-422 chem -222 chem - 498 - 499 chem Research and Symposium - 497 chem (Training course) - 329 chem -201 chem – 321 chem, 524 chem (Master's course) , 425 chem – 320 chem -623 chem (Ph.D course)

Conferences Attendance

Attending a scientific meeting in Lindau as a young researcher in the southern Germany - Lindau, dedicated for chemistry in that year (2009/06/28)

Attending at the 39th World Conference on Coordination Chemistry in Adelaide, Australia, 13-18-8-1431 AH 2010/07/25

Attending numerous conferences, workshops and lectures held at King Saud University and outside in Riyadh City

Participation by scientific poster in Water Arabia 2020 February 11,12 & 13 2020 Location: Le Merdian Khobar, Saudi Arabia 2020/02/11

Attending of International Conference on Advanced Materials and their Applications 2021 from 7th to 9th March 2022

Publications:

1. Synthesis and structural characterization of a Halide-Free Rhombohedral Silver Alkynyl CageComplex [Ag14(C2But)12][BF4]2, Omar M. Abu-Salah, Mohammed H. Ja'far,a Abdel Razzak A. Al-Ohaly, Khalid A. Al-Farhan, **Hamda S. Al-enzi**, Oleg V. Dolomanov and Judith A. K. Howard, Eur. J. Inorg. Chem. (2006), 2353-2356.

2. A New Route to the Preparation of K_2CrO_4; Mutasim I-khalil, **Hamda Al-Enizi** and Maha.AL-Qunaibit,, j, Saudi Chem. Soc., Vol. 11, No. 2, pp. 287-292 (2007).

3. Crystal structure of *trans*-dichloro(1,4-*bis*-(diphenylphosphino) butane)-(*N,N*-1,2-dimethyl-ethanediamine) ruthenium(II) , $C_{32}H_{40}Cl_2N_2P_2Ru$, Hanan Al-Hussain, Ismail Warad**, Hamda Al-Enzi**, Khalid Al-Farhan and Mohamed Ghazzali , Z. Kristallogr. NCS 227 (2012) 379-382 / DOI 10.1524/ncrs.2012.0192

4. Trans/cis isomerization of [$RuCl_2$(diphosphine)(diamine)] complexes: Synthesis, X-ray structure and catalytic activity in hydrogenation , Ismail Warad, Hanan AlHussen, **Hamdah Alanazi**, Refaat Mahfouz, Belkheir Hammouti, Mohammad A. Al-Dosari, Rawhi Al-Far, Taibi Ben Hadda , Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 105 (2013) 466–473

5. Probing the Catalytic Efficiency of Supported Heteropoly Acids for Esterification: Effect of Weak Catalyst Support Interactions; Ali Alsalme, Aliyah A. Alsharif, **Hamda Al-Enizi**, Mujeeb Khan , Saad G.Alshammari, Mshari A. Alotaibi, Rais Ahmad Khan, and Mohammed Rafiq H. Siddiqui, Journal of Chemistry Volume 2018, Article ID 7037461, 10 pages

6. Facile one-pot green synthesis of Ag–ZnO Nanocomposites using potato peel and their Ag concentration dependent photocatalytic properties, Fahad A. Alharthi, Abdulaziz Ali Alghamdi, Nabil Al-Zaqri, **Hamdah S. Alanazi**, Amjad Abdullah Alsyahi, Adel El Marghany& Naushad Ahmad, Scientific Reports, 2020, 10, 20229

7. Photocatalytic Degradation of the Light Sensitive Organic Dyes: Methylene Blue and Rose Bengal by Using Urea Derived g-C_3N_4/ZnO Nanocomposites, Fahad A. Alharthi, Abdulaziz Ali Alghamdi, **Hamdah S. Alanazi**, Amjad Abdullah Alsyahi and Naushad Ahmad, Catalysts 2020, 10, 1457

8. Synthesis of Gd/N co-doped ZnO for enhanced UV-Vis and direct solar-light-driven photocatalytic degradation, **Hamdah S. Alanazi**, Naushad Ahmad and Fahad A. Alharthi, RSC Adv., 2021, 11, 10194-10202

9. Hydrothermal Synthesis, Characterization and Exploration of Photocatalytic Activities of Polyoxometalate:Ni-$CoWO_4$ Nanoparticles, Fahad A. Alharthi †, **Hamdah S. Alanazi** †, Amjad Abdullah Alsyahi and Naushad Ahmad, Crystals, 2021, 11, 456

10. Upcycling olive oil cake through wet torrefaction to produce hydrochar for water decontamination, Shareefa Ahmed Alshareef, Marta Otero, **Hamdah S. Alanazi**,

Masoom Raza Siddiqui, Moonis Ali Khan, Zeid A. Alothman, Chemical Engineering Research and Design,2021, 1 7 0, 13–22

11. Effective adsorption of crystal violet from aqueous solutions with effective adsorbent: equilibrium, mechanism studies and modeling analysis, Hamza S. AL-Shehri, Eyad Almudaifer, Ali Q. Alorabi, **Hamdah S. Alanazi**, Ali S. Alkorbi and Fahad A. Alharthi, Eenvironmental Pollutants and Bioavailability, 2021, 33, 214–226

12. Green Synthesis of NiO Nanoparticle Using Ziziphus Spina-Christi Leaves Extract for Photocatalytic Methylene Blue Dye Degradation, **Hamdah S. Alanazi**, Hanan Alotaibi, Hamza S. Al-Shehri, and Fahad A. Alharthi, Science of Advanced Materials, 2021, 13, 1–8

13. Structural, Morphological and Optical Behavior of Green Synthesized NiO Nanoparticle for Methylene Blue Photo-Degradation, **Hamdah S. Alanazi**, Hanan Alotaibi, Hamza S. Al-Shehri, and Fahad A. Alharthi, J. Nanoelectron. Optoelectron. 2021, 16, 1684-1689

14. Adsorption of Methylene Blue by biosorption on alkali-treated Solanum incanum: isotherms, equilibrium, and mechanism, Hamza S. AL-Shehri †, **Hamdah S. Alanazi** †, Areej Mohammed Shaykhayn, Lina Saad ALharbi, Wedyan Saud Alnafaei, Ali Q. Alorabi, Ali S. Alkorbi, Fahad A. Alharthi, Sustainability, **2022**, *14*(5), 2644.

15. Simultaneous co-hydrothermal carbonization and chemical activation of food wastes to develop hydrochar for aquatic environmental remediation , Shareefa Ahmed Alshareef, Ayoub Abdullah Alqadami, Moonis Ali Khan, Hamdah S. Alanazi ,Masoom Raza Siddiqui, Byong –HunJeon , Bioresource Technology Volume 347, March 2022, 126363

16. Dodecahedral ZnO/C framework on reduced graphene oxide sheets for high-performance Li-ion battery anodes , Edmund Samuel, Chanwoo Park, Taegun Kim, Bhavana Joshi, Ali Aldalbahi , Hamdah S. Alanzi, Mark T. Swihart, Woo Young Yoon , Sam S. Yoon , Journal of Alloys and Compounds, 834 (2020) 155208

17. Reusable and durable electrostatic air filter based on hybrid metallized microfibers decorated with metal–organic–framework nanocrystals , Min-Woo Kim, Yong-Il Kim, Chanwoo Park, Ali Aldalbahi, Hamdah S Alanazi, Seongpil An, Alexander L Yarin, Sam S Yoon , Journal of Materials Science & Technology , Volume 85, 20 September 2021, Pages 44-55

18. Photodegradation of methylene blue and Rose Bengal employing *g*-C_3N_4/$ZnWO_4$ nanocatalysts under ultraviolet light irradiation, Fahad A. Alharthi, Hamdah S. Alanazi, Khalid Mohammed Alotaibi & Naushad Ahmad ,*Journal of Nanoparticle Research* volume 24, Article number: 125 (2022)

19. Hydrothermal Synthesis of Bimetallic (Zn, Co) Co-Doped Tungstate Nanocomposite with Direct Z-Scheme for Enhanced Photodegradation of Xylenol Orange ; Fahad A. Alharthi,Wedyan Saud Al-Nafaei ,Alanoud Abdullah Alshayiqi, **Hamdah S. Alanazi** and Imran Hasan ; Catalysts 2023,13(2),404

20. Fluorometric Sensing and Detection of p-Nitroaniline by Mixed Metal (Zn, Ni) Tungstate Nanocomposite ; Fahad A. Alharthi ,Hend Khalid Aldubeikl, **Hamdah S. Alanazi,** Wedyan Saud Al-Nafaei and Imran Hasan ; Nanomaterials 2023, 13(2), 362 ;

21. Zinc Vanadate ($Zn_3V_2O_8$) Immobilized Multiwall Carbon Nanotube (MWCNT) Heterojunction as an Efficient Photocatalyst for Visible Light Driven Hydrogen ; Fahad A. Alharthi , Alanood Sulaiman Ababtain ,**Hamdah S. Alanazi**, Alanoud Abdullah Alshayiqi and Imran Hasan ; Molecules 2023, 28(3), 1362

22. Deep Eutectic Solvent-Mediated Synthesis of $Ni_3V_2O_8$/N-Doped RGO for Visible-Light-Driven H_2 Evolution and Simultaneous Degradation of Dyes ; Fahad A. Alharthi,Alanood Sulaiman Ababtain ,Hend Khalid Aldubeikl, **Hamdah S. Alanazi** and Imran Hasan ; Inorganics 2023, 11(2), 67

23. Synthesis of $Zn_3V_2O_8$/rGO Nanocomposite for Photocatalytic Hydrogen Production ; Fahad A. Alharthi, Alanood Sulaiman Ababtain , **Hamdah S. Alanazi,** Wedyan Saud Al-Nafaei and Imran Hasan ; Inorganics 2023, 11(3)

24. Synthesis of Novel $Zn_3V_2O_8$/Ag Nanocomposite for Efficient Photocatalytic Hydrogen Production; Fahad A.Alharthi, Alanood Sulaiman Ababtain,Hend Khalid Aldubeikl ,**Hamdah S. Alanazi** and Imran Hasan;*Catalysts* 2023,*3*(3), 455

Supervising master's and PhD theses:

1. Assistant supervision of the master's thesis by student **Hanan Al-Hussein**, the title**"** Synthesis, Spectral and thermal studies of new Family of dichloro-Ruthenium(II) /bis(diphenylphosphino)butane/diamine complexes."

2. Assistant supervision of the master's thesis by student **Aliyah Alsharif**; the title " Biodiesel production by heteropolyacids supported on clay. "

3. Assistant supervision of the master's thesis by student **Amal Al-Asmari**; the title "Use of solid acid catalysts in liquid phase esterification reactions."

4. Main supervision of the master's thesis by student **Basma Madkhali**; the title" Synthesis and characterization of potassium ferrate (K_2FeO_4) for treatment in contaminated water. "

5. Main supervision of the master's thesis by student **Hanan Al-Otaibi** ; the title " Biosynthesis and photocatalytic studies of nickel oxide nanoparticles. "

6. Assistant supervision of the doctoral thesis by student **Shareefa Alshareef**,; the title " Production and Characterization of Hydrochar from waste biomass for Water remediation applications. "

7. Main supervision of the master's thesis by student **Hind Aldubeikl**; the title "Synthesis characterization and fluorescent sensing of metals tungstate nanoparticles for detection of some nitroaromatic compounds."

8. Assistant supervision of the master's thesis by student **Widyan Al-Nafai** ; the title "Photocatalytic applications of metal tungstate nanoparticles for water treatment."

9. Assistant supervision of the master's thesis by student **Alanoud Alshayiqi**; the title "Removal of some pharmaceutical contaminants in water using metal tungstate nanoparticles."

10. Main supervision of the master's thesis by student **Alanood Ababtain**; the title "Synthesis of Metal Vanadates Doped Carbon Nanotube for Photocatalytic Hydrogen Production."

Examiner of master's and PhD theses

1. **Multifunctional carbon nanotube based nanosystem for drug targeted -**

   by Lamya Mohsen Alotaibi (1445 H – 2024 G)

2. **Synthesis of Metal Complexes Derived from Thiadiazole and Their Applications as Chemosensors –by Malak Altowairqi (19/11/1444 H-8/6/2023 G)**

3. **Synthesis of hybrid mesoporous silica as drug delivery system and bioimaging - Bayan Yahya Alshehri (11/12/2023G, 27/5/1445H)**

4. **Synthesis, characterization, and fluorescent sensing of metals tungstate nanoparticles for detection of some nitroaromatic compounds by Hend Al-dubeikl (1444H-2023D)**

5. **Removal of some pharmaceutical contaminants in water using metal tungstate nanoparticles by Alanoud Alshayiqi (july 2023)**

6. Photocatalytic applications of metal tungstate nanoparticles for water treatment **by Widyan Al-Nafai (2023)**

7. Metal oxides graphene nanocomposites for biodiesel production – by Amjad Al-Sayyahi (2023)

8. **Gas-Phase oxidation of toluene by metal oxides nanoparticles** – by **Raghad Al-Asmari** (1444 H- May 2022 G)

9. **Production and Characterization of Hydrochar from Waste Biomass for Water Remediation Applications** by **shareefa Al-Shareef (2022)**

10. **The use of natural products as catalysts for biodiesel production by Maymouna Abu Khanjar (1442 -2020) .**

11. Synthesis and characterization of potassium ferrate (K_2FeO_4) for the treatment of in contaminated water. By Basmah Madkhali (1442 - 2020)

12. Solovthermal Synthesis and Characterization of New Transition Metal – Organic Frameworks (MOFs) by Nouf Almuryyi (1443 H -2021 G)

13. Synthesis and Evaluation of Biological Activity of Gold Nanoparticles Prepared Using Plants Extracts by Alaa Al-Khathlan (1440 H -2018 G)

14. Synthesis ,Structural, and electronic investigations of Ni-based layered double hydroxides (LDHs) and Ni-based LDH composites by Hadeel Aleubaysi (1440 H-2018 G)

15. **Use of solid acid catalysts in liquid phase esterification reaction by Amal Al-Asmari (2014) .**

Community service

1- Participation in University and Community Week events.

2- An induction workshop for on Quality Convoy Events for Both Science college (1435) and Nursing(1436) entitled Accreditation Room and important doc's

3- Supervision of Qiyas tests with "'Mawhibah" for one year- king Abdulaziz and his companion's Foundation for Giftedness and creativity

4- An innovative arbitration of talent students for three years 2014-2015-2016 with the king Abdulaziz and his companion's Foundation for Giftedness and creativity (Mawhibah)

5- Arbitration of innovation and scientific poster at the First Scientific Cultural Meeting of the Gulf States 2015

6- Participation in the Quality Achievement Event at King Saud University 2017 and 2018

7- Supervision of the External Summer Enrichment Programme for Outstanding Female Students in Malaysia –Johor City and University (UniversityTun Hossein Onn Malaysia (UTHM) 12-24/12/1438 H (3-15/9/2017)

8- Representation of the Outstanding and Talented Students Programme in the Women's Section at events, meetings in in the government and private sectors (2015-2022)

9- Participation and coordination to represent the Outstanding and Talented Student Programme at its Career and Graduate Week for several years

10- Organization of expert and scholar meetings among the activities of the Programme for Outstanding and Talented Students in the Women's Section, coordination and follow-up of all training workshops, student meetings and meetings of women coordinators (2015-2022)

11- Representing King Saud University as Head of the Summer 2021 Academic Enrichment Program with the king Abdulaziz and his companion's Foundation for Giftedness and creativity (Mawhibah) held at KSU from 22/12/1442 to 11/1/1443 AH for (105) high school students.

12- Representing King Saud University as Head of the Summer 2022 Academic Enrichment Program with the king Abdulaziz and his companion's Foundation for Giftedness and creativity (Mawhibah) held at KSU from 31/07/2022 to 18/08/2022 AH for (200) high school students.